

॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

“Dnyanteerth”, Vishnupuri, Nanded - 431606 Maharashtra State (INDIA)

Established on 17th September 1994 – Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



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संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदव्युत्तर स्तरावरील प्रथम वर्षाचे CBCS Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ३० एप्रिल २०१९ रोजी संपन्न झालेल्या ४३व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.५/४३-२०१९ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदव्युत्तर स्तरावरील प्रथम वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्यात येत आहेत.

- १) एम.ए.—प्रथम वर्ष—इंग्रजी
- २) एम.ए.—प्रथम वर्ष—हिंदी
- ३) एम.ए.—प्रथम वर्ष—मराठी
- ४) एम.ए.—प्रथम वर्ष—संस्कृत
- ५) एम.ए.—प्रथम वर्ष—उर्दू
- ६) एम.ए.—प्रथम वर्ष—अर्थशास्त्र
- ७) एम.ए.—प्रथम वर्ष—भूगोल
- ८) एम.ए.—प्रथम वर्ष—इतिहास
- ९) एम.ए.—प्रथम वर्ष—तत्त्वज्ञान
- १०) एम.ए.—प्रथम वर्ष—राज्यशास्त्र
- ११) एम.ए.—प्रथम वर्ष—मानसशास्त्र
- १२) एम.ए.—प्रथम वर्ष—लोकप्रशासन
- १३) एम.ए.—प्रथम वर्ष—समाजशास्त्र

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,
विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदव्युत्तर-सीबीसीएस अभ्यासक्रम/
२०१९-२०/६७

दिनांक : १७.०६.२०१९.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

स्वाक्षरित/—

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

SYLLABUS

M. A. SOCIOLOGY

(Semester I& II)

(Choice Based Credit System)

(With Effective From June 2019)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

Choice Based Credit System (CBCS) Course Structure

Faculty of Humanities

M.A. Sociology

(Semester I&II)

With Effective From, 2019-20

Subject : Sociology

Semester	Paper No.	Name of the Paper	Lecturers Per Week	Total No. of Lecturer	Marks			Credits
					CA	ESE	Total Marks	
I	I	Basic Sociological Theories	04	50	25	75	100	04
	II	Methodology of Social Research	04	50	25	75	100	04
	III	Approaches to the Study of Indian Society	04	50	25	75	100	04
	IV	Political Sociology OR Sociology Of Development	04	50	25	75	100	04
			16	200	100	300	400	16

Semester	Paper No.	Name of the Paper	Lecturers Per Week	Total No. of Lecturer	Marks			Credits
					CA	ESE	Total Marks	
II	V	Contemporary Sociological Theories	04	50	25	75	100	04
	VI	Method's Of Social Research	04	50	25	75	100	04
	VII	Perspectives on Indian Society	04	50	25	75	100	04
	VIII	Social Movement in India OR Media and Society	04	50	25	75	100	04
			16	200	100	300	400	16

1) **Continuous Assessment (C.A.) :** **25**

Marks

Two Class Test each for 5 Marks

10 Marks

One home assignment for

10 Marks

One Seminar (With abstract)

05 Marks

2) **End of Semester Examination (E.S.E.)**

75 Marks

End of Semester Examination (ESE)
Question Paper Pattern
M.A. Sociology
With Effect From 2019-20

Duration : Three Hours

Marks 75

Q. 1 Descriptive question 20 Marks

Or

Descriptive question

Q. 2 Descriptive question 20 Marks

Or

Descriptive question

Q.3 Descriptive question 20 Marks

Or

Descriptive question

Q.4 Short Notes/answers on any three 15 Marks

i.

ii.

iii.

iv.

v.

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,
NANDED
SOCIOLOGY**

**M.A. FIRST YEAR (SEMESTER-I)
BASIC SOCIOLOGICAL THEORIES**

Paper No. I

Periods : 50 Marks 100 = Theory (ESE) 75 + Internal (CA) 25 Credit : 4

Course Rational : This Course has been designed primarily to meet the requirement of students offering basic knowledge of sociological theories. It is designed to introduce and orient to the students with the meaning, nature and types of sociological theories.

Utility of the course : This course will help learner to understand the fundamental and foundational knowledge of sociological theories. Further this knowledge would be helpful to better understand the modern and postmodern sociological theories.

Learning Objectives : The main objective of this course is to acquaint the students with basic and foundational sociological theories. This course introduces functional, structural, conflict, neo-functional, phenomenological and ethno-methodological sociological theories.

Course Content :

Unit – I Introduction of Sociological Theories

- Meaning, Characteristics, Basic Elements of Sociological Theory, Significance of Sociological Theory.
- Types of Theory
 - i) Scientific Theory
 - ii) Metaphysical Theory
 - iii) Pragmatic Theory
- Relationship Between Theory and Research.

Unit – II Structural Functional Theory

- Introduction
- Talcott parsons: Functional dimensions of Social system, Functional Pre-requisites of Social system.
- R. K. Merton: Social Functions and dysfunctions Manifest and latent functions.
- New Functionalism: J. Alexander.

Unit – III Conflict Theory

- The origin of conflict, principle assumptions of conflict theory.
- Conflict theory of Karl Marks
- Functional analysis of Conflict Levis Coser
- Conflict Theory of R. Dahrendorf.
- Conflict and Social Change - R. Collins

Unit – IV Ethno methodological Theory

- Nature of Ethnomethodology.
- Basic Concept of Ethnomethodology
- Characteristics of Ethnomethodology.
- Limitations of Ethnomethodology.
- Relationship with Methodology of Ethnomethodology.

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SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED
SOCIOLOGY

M.A. FIRST YEAR (SEMESTER-I)

METHODOLOGY OF SOCIAL RESEARCH

Paper No. II

Periods : 50 Marks 100 = Theory (ESE) 75 + Internal (CA) 25 Credit : 4

Course Rational : This Course has aim to make this course helpful to the students to offer philosophical and sociological approaches of research methodology. This course has also major aims and objective to make students rational and logical. This course has also relevance and significance in providing in-depth and fundamental knowledge to learners about the roots of social science research.

Utility of the course : This course has utility to provide logic, scientific temper and attitudes to the learners. This course makes students rational and logical. This course also helps to identify the research questions for inquiry and make able to the learners to formulate research proposal.

Learning Objectives : The Main Purpose of this course is to make rational and critical minds of the sociological students. This course has also aims to teach to the learners to make differentiate between common sense knowledge and scientific knowledge. This course has main aim to make learners critical thinkers and social scientists.

Course Content :

Unit I Science and Objectivity

- Meaning and Characteristics of Science.
- The Problems in the Study of Social reality.
- Objectivity meaning and Characteristics.
- Importance of objectivity in social research.

Unit II Introduction to Research Process

- Social Research : Meaning, Characteristics and Significance.
- Obstacles of Social Research.

Unit III Quantitative Research Technique

- Introduction
- Survey : Planing of Social Survey, Inter-relation between survey and Research.
- Scalling Techniques : Utility of Sociological Scaling difficulties of Sociological Scaling.
- Content Analysis : Objectives of Content Analysis Units of Content Analysis.

Unit IV Qualitative Research

- Introduction
- Seven moments (Stapes) of Qualitative Research.
 - i) Formulation of Problem.
 - ii) Formulation of Hypothesis.
 - iii) Research Design :
 - a) Sampling Design
 - b) Statistical Design
 - c) Observation Design
 - d) Operational Design
 - iv) Sampling
 - v) Data Collection and Classification of Data.
 - vi) Analysis of data and Conclusion.
 - vii) Interpretation of Conclusion and Report writing.

Unit V Research Strategies

- 1) **Questionnaire**
 - Characteristics & Constructing Questionnaire
 - Techniques of Constructing Questionnaire
- 2) **Interview**
 - Main Steps of interview technique
 - Reliability and validity of interview
- 3) **Observation**
 - Characteristics of observation techniques.
 - Obstacles of reliability of observation techniques
- 4) **Case Study**
 - Procedure of case study
 - Types of case study
- 5) **Scheduled**
 - Construction of Scheduled.
 - Importance in social Research.

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**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,
NANDED**

SOCIOLOGY

M.A. FIRST YEAR (SEMESTER-I)

APPROACHES TO THE STUDY OF INDIAN SOCIETY

Paper No. III

Periods : 50 Marks 100 = Theory (ESE) 75 + Internal (CA) 25 Credit : 4

Course Rational : This Course is designed to provide varieties of approaches in the context of understanding the various socio-cultural, socio-political and economical dimensions of Indian society. This course is aimed to sensitize to the learners to know the diversity and inter-connectedness of theoretical perspectives on Indian societies. This course has also aim to orient learners towards the Indian sociological approaches.

Utility of the course : This course provides the varieties of perspectives and approaches to the learners to understand the different dimensions of Indian society. This course has importance and relevance in the knowing the social realities with using multiple approaches. By using these varieties of approaches, students would come with concrete conclusion.

Learning Objectives : This Course has major objectives such as to introduce the different approaches of Indian society. To make aware of them about the importance and use of the different approaches to understand the complex and complicate nature of Indian society. The proposed course is an attempt to introduce the themes and perspectives of Indian Society to the student who are interested in understanding the Indian Society. The course primarily focuses on the theoretical approaches, concepts, institutions and organization of Indian Society.

Course Content :

Unit I Indian Society :

- Origin and Development to Indian Sociology.
- Development of Sociology after independent in India.
- Sociological Research in Maharashtra
- Contribution of Dr. B. R. Ambedkar's to Indian Sociology.
- Various approaches to Indian Sociology
 - 1) Philosophical, Sociological approach.
 - 2) Comparative approach.
 - 3) Historical approach
 - 4) Structural Functional approach.
 - 5) Macro and Maicro approach.

Unit II Indological Perspectives

- Dr. G. S. Ghurye
- Louis Dumount
- Iravati Karve

Unit III Structural Functional Perspectives

- M.N. Shrinivas
- S. C. Dube
- Macckim Marrit

Unit IV Marxism Perspectives

- D.P. Mukharji
- A. R. Desai
- Ramkrishna Mukharji

References:

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- Dumont Louis 1970. Homo Hierarchirs: The Caste System and its implications. New Delhi : Vikas,
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SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

SOCIOLOGY

M.A. FIRST YEAR (SEMESTER-I)

POLITICAL SOCIOLOGY

Paper No. IV

Periods : 50 Marks 100 = Theory (ESE) 75 + Internal (CA) 25 Credit : 4

Course Rational : This Course has interdisciplinary importance in the context of understanding the Indian society. This course offers interdisciplinary approach which combines both sociological as well as political science approaches to understand the society, state, power, authority, politics of the Indian society. This course has logic to provide social science theories to understand the relationships between society and polity.

Utility of the course : This course has relevance and significance to provide and sociological approaches to understand the contemporary Indian socio-cultural, socio-economical issues and problems. This course has also utility to make learners aware of about the rights, duties and roles of the Indian citizen. This course is designed to develop the feelings of nationalism among the young minds of the country.

Learning Objectives : This Course has major aim to orient to the students about the relationship between the state and society. This course has also aims to provide different approaches to reveals the relationships between different social institutions state, nation, society, polity and religion. This course has major objective is to make aware and sensitize to the learners about the Indian democracy, ethics, values of Indian society, culture and civilization.

Course Content :

Unit I Political Sociology

- Origin of Political Sociology
- Definition and subject matter of political sociology
- Relationship between society and polity.

Unit II Theoretical Approaches to the State

- Liberal Approach
- Pluralist Approach
- Neo Marxist Approach – Louis Atthusser, Antenio Gramsci

Unit III Voting Behavior

- Meaning of voting Behavior.
- Significance of voting Behavior.
- Determinants of voting behavior.

Unit IV Pressure Groups

- Meaning and Characteristics of pressure groups.
- Political Significance of Pressure groups.
- Interrelationship between pressure groups. Political, parties, Bureacracy and Public Policy.

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SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

SOCIOLOGY

M.A. FIRST YEAR (SEMESTER-I)

SOCIOLOGY OF DEVELOPMENT

Paper No. IV

Periods : 50 Marks 100 = Theory (ESE) 75 + Internal (CA) 25 Credit : 4

Course Rational : This Course is designed to provide logical inquiries, statistical measures and qualitative approaches of development. This course has importance to provide different dimensions, perspectives, approaches and methods of development, inequalities based on social and economical indicators. This course offers theoretical as well as methodological insights and approaches in the context of measurement of development.

Utility of the course : This course helps learners to understand the issues and challenges of development in front of the Indian society. This course provides insights, in-depth knowledge about the backwardness and inequalities. This course provides alternative ways to address and tackle the issues of development. This course is designed to provide different theoretical perspectives, theories of dependency, Centre-periphery approaches of development and underdevelopment.

Learning Objectives : The main purpose of this course is to acquaint to the students with the concept of development. This course has also aim to motivate to the learners over the critics of existing paradigm of development and think over the alternative model of development. This course has also value to sensitize the students over the different theoretical perspectives on the contemporary socio-economical aspects of overall development of the country.

Course Content :

Unit I Basic Concepts of Development

- The Concept of Development
- Economic Growth
- Limits to Economic Growth
- Economics Growth and Development

Unit II Modern Theories of Development

- Theories of Modernization
- Marxist Approach to Development
- Max Weber Approach to Development

Unit III Dependency Theories of Development

- A. Gunder Fran's Approach of Centre-Periphery
- Samir Amin's Perspectives on Uneven Development
- Immanuel Wallerstein's Theory of World Capitalist System

Unit IV India's Path of Development

- Modernization
- Socialist path
- Mixed Economy
- Globalization

Unit V Social Structure and Development

- Social Structure as a facilitator or inhibitor
- Development and Socio-economic disparities
- Development and displacement of tradition

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SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

SOCIOLOGY

M.A. FIRST YEAR (SEMESTER-II)

CONTEMPORARY SOCIOLOGICAL THEORIES

Paper No. V

Periods : 50 Marks 100 = Theory (ESE) 75 + Internal (CA) 25 Credit : 4

Course Rational : This Course traces the development of modern sociological theory broadly from Functionalism to Post-modernism. The course is designed to emphasis on coming to terms with the major theorists in various schools.

Utility of the course : This course would be helpful to the learners to understand the contemporary sociological theories. This course has aim to build up the capacity of the learners and make them able to understand the sociological perspectives to capture the social realities.

Learning Objectives : The central objective of the course is tracing and contextualizing the history and Development of sociological theory, and examining its prospects and relevance in the Changing contexts in the contemporary period.

Course Content :

Unit I Phenomenological Theory

- Meaning and roots of phenomenology.
- Contribution of Alfred Schurz, George Sontyana, Jurgan Hebermas, Edmund Hussrel.

Unit II Symbolic Interaction Theory

- Meaning and Nature of symbolic interaction.
- Contribution of G. H. Mead and G. H. Blumer in symbolic interaction theory.

Unit III Modernism to Post Modernism

- Moderism : Introduction and meaning.
- Post Modernism : Introduction and meaning and key terms.
- Difference between Modernism and post modernism.
- Characteristics of past Modern Society.
- Future of post Modern Society.

Unit IV Theory of Social Change

- Nature and meaning of social change.
 - Forms of Social Change
 - Directions of Social Changes.
- Theories of Social Change
 - Technological Theory
 - Economic Theory
 - Adaption Theory
 - Cultural interaction Theory

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SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

SOCIOLOGY

M.A. FIRST YEAR (SEMESTER-II)

METHOD'S OF SOCIAL RESEARCH

Paper No. VI

Periods : 50 Marks 100 = Theory (ESE) 75 + Internal (CA) 25 Credit : 4

Course Rational : This Course is designed to provide fundamental knowledge about the use of both quantitative as well as qualitative methods of social research. This course orients to the students about the techniques, tools and methods in the human and social inquiries and investigation.

Utility of the course : This course is useful to provide knowledge of advanced tools and techniques of research methodology. This course has very wide scope and relevance in the different fields of inquiries and investigations.

Learning Objectives : This course has major aim and objective to orient and introduce the advanced tools and techniques of research methodology. This course is designed to make aware of to the learners about the both tools and techniques of quantitative as well as qualitative methods.

Course Content :

Unit I Research Design

- Meaning and Importance of Research Design.
- Types of research Design
 - i) Exploratory Design
 - ii) Descriptive Design
 - iii) Diagnostic Design
 - iv) Experimental Design

Unit II Statistics in Social Research

- Meaning, Importance of Statistics in Social Research.
- Measures Of Central Tendency : Mean, Median, Mode.
- Standard Deviation.

Unit III Application of Computer in Social Research

- Use of internet in Social Research.
- Computer Application (S.P.S.S.).
- Computer Packages for Social Science Research.

Unit IV Research Report Writing

- Introduction
- Objects of Research Report.
- Content of the Research Report.
- Problems of Preparing of Research Report.
- Characteristics of good Research Report.

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**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,
NANDED**

SOCIOLOGY

M.A. FIRST YEAR (SEMESTER-II)

PERSPECTIVES ON INDIAN SOCIETY

Paper No. VII

Periods : 50 Marks 100 = Theory (ESE) 75 + Internal (CA) 25 Credit : 4

Course Rational : This Course has rationale to provide theoretical inputs and introduce multiple perspectives to understand the nature of Indian society. This course is designed to orient different perspectives to know the Indian social reality.

Utility of the course : This course has relevance in introducing the different approaches to the learners about the Indian society. These perspectives gave direction to the learners to know the different complexities and nature, structure of the Indian society. This course provide scientific approaches and developed scientific outlook and attitude in the case of inlaying Indian social truths. The perspectives on Indian society would produce sociological knowledge that helps to policy makers and social scientists.

Learning Objectives : This Course has major objectives such as to introduce the different approaches of Indian society. To make aware of them about the importance and use of the different approaches to understand the complex and complicate nature of Indian society. The proposed course is an attempt to introduce the themes and perspectives of Indian Society to the student who are interested in understanding the Indian Society. The course primarily focuses on the theoretical approaches, concepts, institutions and organization of Indian Society.

Course Content :

Unit I Civilizational Perspective

- N. K. Bose
- Surjit Sinha

Unit II Subaltern Perspective

- Dr. B. R. Ambedkar
- Dr. Ranjeet Guha
- David Hardiman

Unit III Contemporary Perspective

- Non- Brahmin : - Mahatma Puule
- Rajarshi Shahu

Unit IV Feminist Perspective

- Sharmila Rege
- Uma Chakarwarty

Unit V Globalization and Indian Society

- Education : Issues in Higher Education.
- Impacts of Globalization on Indian Society.

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SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

SOCIOLOGY

M.A. FIRST YEAR (SEMESTER-II)

SOCIAL MOVEMENT IN INDIA

Paper No. VIII

Periods : 50 Marks 100 = Theory (ESE) 75 + Internal (CA) 25 Credit : 4

Course Rational : This Course is designed to orient to the student about the social activism. This course provides details information about the contemporary social movement, their ideologies, leaderships, organizations and participation of the masses. This course also introduces to the learners the collective efforts of the masses and common people of the country. This course also introduces the theoretical framework to analyze the social movement.

Utility of the course : This course has importance in many ways to provide orientation to the students about the contemporary social movements India. Thus, the course tried to make students aware of about the demands and issues of the social movements.

Learning Objectives : This course has major aim to introduce the different types of social movements to the learners. By Studying this course, student would be got knowledge about the contemporary demands of the people. The learners would be aware of about the issues, demands and problems of the Indian masses. Thus, this course has aim to provide information and knowledge about the social activism.

Course Content :

Unit I Introduction

- Definition and Characteristics of Social Movements.
- Major types of Social Movement.
- Social Movement and social change.

Unit II Theoretical Perspectives of Social Movement

- Marxim approach of social movement.
- Relative Deprivation Theory.
- Social Strain Theory.

Unit III Essential Components of Social Movements

- Ideology.
- Organization.
- Leadership.
- Communication

Unit IV Contemporaries of Social Movement

- Emergence of New Social Movements.
- Environmental Movement : Chipko and Narmada Andolan.
- Human Right Movement : Karmveer Dadasaheb Gaikwad and Eknath Awad.

Unit V Ambedkariat Movements

- Background of Ambedkariat Movement.
- Present Situation Ambedkariate Movement in Maharashtra.
- Challenges of Ambedkariate Movement.

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SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

SOCIOLOGY

M.A. FIRST YEAR (SEMESTER-II)

MEDIA AND SOCIETY

Paper No. VIII

Periods : 50 Marks 100 = Theory (ESE) 75 + Internal (CA) 25 Credit : 4

Course Rational : This course introduces the students to basic conceptual understanding in media and society in general and Indian society in particular in the changing context of Globalization. This also aims to acquaint to the learners with various theoretical perspectives, critics, alternatives relating to the relation between media and society.

Utility of the course : This course has significance in the areas of media and society. Media and society is new emerging areas which has opportunities for the students of sociology at amount. This is opening field for the learners.

Learning Objectives : This course is designed such way that helps to the learners to understand the relationships between society, print media and mass media. In the contemporary era, media is playing important roles in the different spheres of the life of the human being. Thus, this course has major aim to orient to the student of sociology about the role of media.

Course Content :

Unit I Conceptual Understandings

- Mass Communication.
- Development Communication.
- Folk Culture Media and Society.
- Mass Culture Media and Society.

Unit II Approaches and Perspectives

- Functional, critical political economy and social communication.
- Social Change and Development.
- Social Integration and Identity.
- Power and Inequality.

Unit III Methods and Theories of Media

- Transmission, Ritual or expressive, publicity and reception Model.
- Theories : Authoritarian, Libertarian.
- Social Responsibility.
- Public Sphere.

Unit IV Media Effect on Socio-Cultural Life

- Media effects : Intergration, Violence.
- Diffusion of innovation and Development, Social distribution of knowledge, social learning.
- Effect on Public Opinion and attitude.
- Effect of Political Communication Democracies.
- Practical Component- Issues based Field visit.

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Swami Ramanand Teerth
Marathwada University,
Nanded

Sociology Syllabus

M.A. Second Year

(Semester Pattern)

With effect from June 2010

Sociology Syllabus
M.A. Second Year
With effect from June 2010
Semester III

Paper IX	Classical Sociological Tradition	80 Marks
Paper X	Sociology of Marginalized Communities	80 Marks
Paper XI	Sociology of Change and Development	80 Marks
Paper XII	Gender and Society	80 Marks
	OR	
	Sociology of Demography	80 Marks

(20 Marks for Internal Assignment to Each Paper)

Sociology Syllabus
M.A. Second Year
With Effect from June 2010
Semester III
IX Classical Sociological Tradition

80 Marks

Objectives

01. To provide the Sociology Students with the understanding of Sociological theory.
02. To Train students in the application of these theories to social situations.
03. Acquaintance with the writings of these four thinkers would equip the students with theoretical insights to know, analyse and interpret the social scenario around them and would also familiarize them with the different sociological perspectives and theories.

01. Max Weber

Contribution to the Methodology of social sciences: Distinctive nature of social realities sociology as an interpretative science – concepts of ‘Verstehen’ an Ideal Type.

Theory of Social Action – Concept and types: Bureaucracy: Concept, Characteristics: bureaucracy and rationality.

Views on capitalism: Analysis of modern Capitalism. Protestant Ethic and Emergence of Capitalism; Role of ideas and Values in social change.

02. Charles Horton Cooley

Intellectual background

Cooley's thought on primary Group.

The Characteristics of primary Group.

Importance of Primary Group.

Charles Cooley's concept of looking Glass self communication.

Social Process, Collective behaviour

Cooley's thought on sociological method.

Cooley's thought on institutional Analysis.

References:

01. Parsons Talcott – The structure of social Act on Vol. I to II.
02. Aron Raymond – Main Current in Sociological Thought, Vol. I & II.
03. Giden, Anthony – Development of Capitalism & the Social Theory.
04. Nisbet – The Sociological Tradition.
05. Zeitlin – Ideology and the Development Sociological Theory.
06. Frund – The Sociology of Max weber.
07. Dahrendarf, Ralph – Class & Class conflict in a industrial society.
08. coser, Lewis – The Masters of Sociological Thought.

09. Bottomore and Rubell – Karl Marx-Selected Writings in Sociology and social Philosophy (for Marx)
10. Bendix, Rinehard – Max weber, An intellectual portrait (For Weber)
11. Gerth and Mills Barbe (Ed) – From Max Weber, An introduction to the History of Sociology.
12. Gidden – Social and Political thought of Max Weber
13. Gurvitch and Moor – Twentieth Century Sociology.
14. Mauss – A Brief History of Sociology.
15. Mitchell – A Hundred year of Sociology.
16. Don Martindale – The Nature and Types of Sociological Theory.
17. Proper – Open Society and its Enemies.
18. Plamenatz – Man and Society, Vols I & II
19. Sorokin – Conemporary Sociological Theories Harper New York 1963.
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22. M.Hayakowa – Vilfredo Pareto's Fundamental Equation Sappore (Japan) 1932.
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Sociology Syllabus
M.A. Second Year
With Effect from June 2010
Semester III
X Sociology of Marginalized Communities

80 Marks

Objectives

- i) This course is aimed at sensitizing students to the significance of the sociological study of Marginalized communities.
- ii) To understand the problems of Marginalized communities in India.
- iii) The focus of the paper is on groups & communities which have suffered extreme poverty, deprivation and discrimination over a long period of time.

1. Concept and Indices

- a. The concept of marginalization
- b. Socio-economic Indices of marginalized communities: Poverty, Relative Isolation, Deprivation, Exploitation, Educational backwardness and inequality.

2. Caste System

- a. The concept of caste and castism.

- b. Caste system as a base of inequality
- c. Caste system: continuity and change.

3. Untouchability

- a. Untouchability: A Historical Review.

- b. Theories of the origin of untouchability:
 - i. Race and Occupation Theory.
 - ii. Brahmical Theory
 - iii. Dr.B.R. Ambedkars Broken – men Theory.
 - iv. Multicausal Theory

- c. Dysfunctions of untouchability.

- d. Current practices of untouchability: overt and covert forms.

4. Scheduled Castes

- a. The status of the scheduled castes in the present context.
- b. problems of the scheduled castes in the contemporary India.
- c. New identity formation and its expression through Dalit literature movement, social movement and political movement.
- d. Social mobility among the scheduled castes.
- e. Constitutional provisions for the scheduled castes: Implementation, impact, limitations and critical review.

References : Sociology of Marginalized Communities

01. Beteile, Andre, 1981, Backward Classes and the New Social Order (Delhi Oxford University Press)
02. Beteile, Andre, 1992; The Backward Classes in Contemporary India (Delhi Oxford University Press).
03. Charsley,S.R. and G.K. Karanth, 1998 – Eds.: Challenging Untouchability (Delhi: Oxford University Press).
04. Chaudhuri, S.N., 1988, Changing Status of Depressed Castes in Contemporary India (Delhi: Daya Publishing House).
05. Gore, M.S. 1993: The Social Context of an Ideology: The Social and Political Thoughts of Babasaheb Ambedkar (Delhi: Oxford University Press).
06. Gupta, Dipankar, 1991: Social Stratification (Delhi: Oxford University Press).
07. Jogdand, P.G., 2000, New Economic Policy and Dalits (Jaipur: Rawat) .
08. Jogdand P.G., 1991, Dalit Movement in Maharashtra (New Delhi: Kanak Publications).
09. Mahajan, Gurpreet, 1998: Democracy, Difference and Social Justice (Delhi: Oxford University Press).
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11. Omvedt, Gail, 1999: Dalits and the Democratic Revolution (New Delhi Sage).
12. Ommen, T.K. 1990: Protest and Change: Studies in Social Movements (Delhi: Oxford University Press).

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20. M.N. Shrinivas – Caste in Modern India, Asia Publishing House, Bombay, 1970.
21. C.J. Fuller – Caste Today (Edited), Oxford University Press, Delhi, 1997.
22. S.V. Ketkar – History of Caste in India, Rawat Publications Jaipur, 1979.
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Sociology Syllabus
M.A. Second Year
With Effect from June 2010
Semester III
XI Sociology of Change and Development

80 Marks

Objectives

The course is designed to achieve the following objectives

- To provide conceptual and theoretical understanding of social change and development as it has emerged in sociological literature
- To offer an insight into the ways in which social structure impinges on development and development on social structure; and
- To address in particular the Indian experience of social change and development.
- To prepare the students for professional careers in the field of development planning including governmental, non-governmental and international agencies engaged in development.

01. Meaning and forms of social change

- a. Evolution, progress, transformation.
- b. Change in social structure

02. Theories and factors of social change.

- a. **Theories:** Linear, Cyclical and Curvilinear

- b. **Factors:** Demographic, Economic, Religious, Bio-tech, info-tech and Media.

03. Social change in contemporary India

- Process of change
 - a. Sanskritization
 - b. Westernization
 - c. Modernization
 - d. Secularization

04. Changing conceptions of development

- a. Social Development
- b. Economic Growth
- c. Sustainable Development

References:

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02. Agrawal, B. 1994, A Field of One's Own: Gender and Land Rights in South Asia, Cambridge; Cambridge University Press.
03. Appadurai, Arjun, 1997; Modernity at Large; Cultural Dimensions of Globalisation, New Delhi, OUP.
04. Dereze, Jean and Amartya Sen; 1996; India: Economic Development and Social Opportunity, New Delhi: OUP.
05. Desai, A.R.; 1985; India's Path of Development; A Marxist Approach, Bombay: Popular Prakashan, (Chapter 2.)

06. Giddens Anthony, 1996, "Global Problems and Ecological Crisis" in Introduction to Sociology. IInd Edition: New York: W.W. Norton & Co.
07. Haq. Mahbub UI. 1991. Reflections of Human Development. New Delhi, OUP.
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Sociology Syllabus
M.A. Second Year
With Effect from June 2010
Semester III
XII Gender and Society

80 Marks

Objectives

This course plan focuses on the emergence of women's movements and women's studies in the context of feminist thought and critiques of sociological theories and methodologies. The objective is to trace the evolution of gender as a category of social analysis in the late twentieth century. Major debates that have emerged are also outlined. The format provides for a comparative perspective in so far as the first part encompasses the developed and the developing countries while the second part revolves around issues concerning Indian women. It is hoped that exposure to the course will lead to a better understanding of the social phenomena.

01. Social Construction of Gender

- Feminism: meaning and types – Liberal, Radical, socialist (Marxist)
- Gender V/s Biology, Equality V/s Difference
- Women in the family: Socialization, Nature V/s. Gender, Gender roles, Private – Public dichotomy, sexual division of labour

02. Emergence of Feminist thought

- Socio-historical perspectives,

- Mapping various womens movement.

03. Gender and Sociological analysis

- Feminist critiques of sociological theories prevailing theories.
- Feminist Methodology as critique of sociological methodology.
- Emergence of women's studies.

04. Gender Based Division of Labour

- Production V/s Reproduction
- Household work, invisible work,
- Women's work and technology
- Development Policies, Liberalisation, Globalization and there impact on women development and women's empowerment.

Reference:

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02. Chodrow, Nancy, 1978, the Reproduction of Mothering, Berkeley: University of California Press.
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Sociology Syllabus
M.A. Second Year
With Effect from June 2010
Semester III
XII SOCIOLOGY OF DEMOGRAPHY

80 Marks

Objectives

The course is designed to spread awareness among the students to think deeply regarding the serious growth of population in our country. Although the Central and State Governments have initiated several policy and action oriented population control measures, there is no sign of decline in the growth of population in the country. Analysing contextually the situation in China, and other countries, the prevailing situation in India needs to be addressed seriously.

1. Introduction to Social Demography

Meaning and features of social demography

Origin and development of demography

Distinction between demography and population in study

Significance of social demography

Social demography and its relations with Sociology, Economics & Geography.

2. Methods of Social Demography

Sources of demography data

Evaluation of demography data

Methods of social demography – evaluation, adjustment, prediction,

Projection, mathematical and statistical methods.

Population Pyramid in India since 1901.

3. Theories of Population Growth

Malthusian theory of population growth.

Natural law theories of population growth

M.T. Sadler, Double day, Spencer and Gini

Social theories of population growth

George Dumont, Carr-Saunders and Marx

4. Basic Concepts of Demographic Analysis or Variables of Population Growth

Fertility – definition of fertility, fecundity: determinants of fertility, age & sex composition and its consequences.

Mortality – definition & rate of mortality, determination of mortality, trends and causes of mortality, differential mortality – marriage, age, sex, education, occupation, religion, caste, rural & urban, economic status, environment, diseases, health, AIDS, pollution, war & Mortality.

Definition and Determinants of Infant, Child and Maternal Mortality, Mortality and its Effect of Population Growth.

Migration – definition & rate of migration, determinants and consequences of migration in industrialized and developing countries.

References:

01. Thomson & Lewis, Population Problem.
02. Bogues Donald J., Principles of Demography.
03. Ford and Bejong, Social Demography.
04. Heer, David M., Society and Population.

05. Agrawala S.N., India's Population Problems.
06. United Nations, Population.
07. Dr.Hans Raj, Fundamentals of Demography
(Population studies with special reference to India)
08. Joel Smith & Mark Evers, Ecology and Demography.
09. N.Baskara Rao, Family Planning in India.
10. Ramkrishna Mukherjee, Family and Planning in India.
11. McGraw Hill, India's Population Problem.
12. Peter R. Cox, 1976, Demography.
13. Premi Ramananna, An Introduction to Social Demography.
14. Ashish Bose, Studies in Demography.
15. Beaaju Carnier, Geography of Population.
16. G.R. Madan, Indian Social Problems.
17. Lorimer F., The Development of Demography.
18. Hauser and Duncan, The Study of Population.
19. Sinha and Zachana, Elements of Demography.
20. G.B. Saxena, Indian Population Translation.
21. Bose, Asish, Demographic Diversity of India.
22. Rajendra Sharma, Demography and Population Problems.
23. Srivastava, Demography and Population Studies, New Delhi.

24- Rkkjk dkfuVdj vkf.k I erh dyd.khZ YkkdI ā ; k' kkl=

25- MKW+ , Lk+ , Uk dyd.khZ o MKW I rh' k JhokLro YkkdLka ; k ' kkl=
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27- MKWnk /kks dkpkGs ykdI ā ; k' kkl=

Sociology Syllabus

M.A. Second Year

With effect from June 2010

Semester IV

Paper XIII Classical Sociological Tradition 80 Marks

Paper XIV Sociology of Marginalized Communities 80 Marks

Paper XV Sociology of Change and Development 80 Marks

Paper XVI Gender and Society 80 Marks

OR

Sociology of Demography 80 Marks

(20 Marks for Internal Assignment to Each Papers)

Sociology Syllabus
M.A. Second Year
With Effect from June 2010
Semester IV
XIII Classical Sociological Tradition

80 Marks

01. George Simmel

- Intellectual background
- Nature of sociology as stated by George Simmel.
- George Simmel's view on formal Sociology
- The Dialectical Method in George Simmel's Sociology
- George Simmel's view on social processes and types of interaction.
- The stranger – George Simmel's view.
- Social Distance
- The significance of number for social life.
- Simmel's Ambivalent view of Modern culture.

02. Vilfredo Pareto

- Intellectual back ground
- Sociological Methodology – His logical experimental method.
- Analysis of logical and non logical action.
- Theory of residues and Derivations, definition and bases of residues and derivations.
- The classification of residues and derivations.

- Theory of elites, circulation of elites.
- Concept of equilibrium and social system.
- Evaluation of his ideology

References:

01. Parsons Talcott – The structure of social Act on Vol. I to II.
02. Aron Raymond – Main Current in Sociological Thought, Vol. I & II.
03. Giden, Anthony – Development of Capitalism & the Social Theory.
04. Nisbet – The Sociological Tradition.
05. Zeitlin – Ideology and the Development Sociological Theory.
06. Frund – The Sociology of Max weber.
07. Dahrendarf, Ralph – Class & Class conflict in a industrial society.
08. coser, Lewis – The Masters of Sociological Thought.
09. Bottomore and Rubell – Karl Marx-Selected Writings in Sociology and social Philosophy (for Marx)
10. Bendix, Rinehard – Max weber, An intellectual portrait (For Weber)
11. Gerth and Mills Barbe (Ed) – From Max Weber, An introduction to the History of Sociology.
12. Gidden – Social and Political thought of Max Weber
13. Gurvitch and Moor – Twentieth Century Sociology.
14. Mauss – A Brief History of Sociology.
15. Mitchell – A Hundred year of Sociology.
16. Don Martindale – The Nature and Types of Sociological Theory.

17. Proper – Open Society and its Enemies.
18. Plamenatz – Man and Society, Vols I & II
19. Sorokin – Contemporary Sociological Theories Harper New York 1963.
20. G.H. Bousquet – The work of Pareto Hoover 1928.
21. G.C. Homeas and C.P. Curtis – An Introduction to Pareto, New York 1934.
22. M.Hayakawa – Vilfredo Pareto's Fundamental Equation Sapporo (Japan) 1932.
23. L.J. Henderson – Pareto's General Sociology – Cambridge 1935.
24. T. Parsons – Vilfredo Pareto in Encyclopedia of Social Science 1957 Vols II P.376.

Sociology Syllabus
M.A. Second Year
With Effect from June 2010
Semester IV
XIV Sociology of Marginalized Communities

80 Marks

01. Scheduled Tribes

- a. The concept of scheduled tribe.
- b. The status of the scheduled tribes in the present context.
- c. Problems of the scheduled tribes in the contemporary India.
- d. Emerging Tribal Image.
- e. Constitutional Provisions for the scheduled tribes: Implementation, Impact, limitations and critical review

02. Nomadic Tribes and De-notified Tribes

- a. The concept of Nomadic Tribes and De-notified Tribes.
- b. Social structure of Nomadic Tribes and De-notified Tribes.
- c. The status of Nomadic Tribes and De-notified Tribes in the present context.
- d. Problems of the Nomadic Tribes and De-notified Tribes in the contemporary India.

03. Perspectives on Marginalization

- a. Mahatma Jotirao Phule

- b. Rajarshee Shahu Maharaj
- c. Dr.Babasaheb Ambedkar
- d. Ramaswami Periyar

04. Contemporary Issues.

- a. Reservation policy and marginalized communities.
- b. New Economic Policy and marginalized communities.
- c. Higher Education Policy and marginalized communities.
- d. Nature of Religions conflicts in India with special reference to Hindu Muslim relations.

References : Sociology of Marginalized Communities

- 01. Beteile, Andre, 1981, Backward Classes and the New Social Order (Delhi Oxford University Press)
- 02. Beteile, Andre, 1992; The Backward Classes in Contemporary India (Delhi Oxford University Press).
- 03. Charsley,S.R. and G.K. Karanth, 1998 – Eds.: Challenging Untouchability (Delhi: Oxford University Press).
- 04. Chaudhuri, S.N., 1988, Changing Status of Depressed Castes in Contemporary India (Delhi: Daya Publishing House).
- 05. Gore, M.S. 1993: The Social Context of an Ideology: The Social and Political Thoughts of Babasaheb Ambedkar (Delhi: Oxford University Press).
- 06. Gupta, Dipankar, 1991: Social Stratification (Delhi: Oxford University Press).
- 07. Jogdand, P.G., 2000, New Economic Policy and Dalits (Jaipur: Rawat) .
- 08. Jogdand P.G., 1991, Dalit Movement in Maharashtra (New Delhi: Kanak Publications).

09. Mahajan, Gurpreet, 1998: Democracy, Difference and Social Justice (Delhi: Oxford University Press).
10. Omvedt, Gail, 1995; Dalit Visions: the Anti-Caste Movement And the Construction of an Indian Identity (New Delhi: Orient Longman).
11. Omvedt, Gail, 1999: Dalits and the Democratic Revolution (New Delhi Sage).
12. Ommen, T.K. 1990: Protest and Change: Studies in Social Movements (Delhi: Oxford University Press).
13. Robb, peter, 1993, Eds.: Dalit Movements and the Meeting of Labour in India (Delhi: Sage).
14. Shah, Ghanashyam, 1990: Social Movements in India: A Review of Literature, (Delhi: Sage).
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17. Western India (Bombay: Scientific Socialist Educational Trust, 1976.)
18. Zelliott, Eleanor, 1995: From Untouchable to Dalit: Essays on the Ambedkar Movement (New Delhi: Manohar)
19. Anjala Kumari – Social Inequality : A brief study, Alfa Publication, New Delhi 2008.
20. M.N. Shrinivas – Caste in Modern India, Asia Publishing House, Bombay, 1970.
21. C.J. Fuller – Caste Today (Edited), Oxford University Press, Delhi, 1997.

22. S.V. Ketkar – History of Caste in India, Rawat Publications Jaipur, 1979.
- 23- jke vgnrk&Hkkjrh; I ekt] jkor ifcyd'ku] t; ij] 2002-
- 24- eukst d'ekj fl g& Hkkjr ea I kekftd ifjorU] vtU ifcyf'ka gkAI] ubz fnYyh] 2005-
- 25- ' ; kekpj.k n'cs & Hkkjrh; I ekt ¼vuqi d'k'k ns ki kM½] uWkuy cpl VLV] bñM; k 1994-
- 26- xlfom xkj] f' k#HkkÅ fye; &egjk"Vkrhy nfyr 'kksk vkf.k cksk] I gk/; ; u idk'ku] ecb] 1973-
- 27- geyrk jkb]dj&vLi' ; rk vkf.k dk; nk] bñM; u I D; yj I kd k; Vh] i q ks 1978-
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- 29- ufyuh iMhr&tkfrok vkf.k oxbkn] ykdokMe; xg ecb] 1978-
- 30- ukend gVdj & Hkkjrkrhy tkfrHks vkf.k R; koj mik;] vtc i qrdky;] dkYgki j 1972-
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okVpky*-

Sociology Syllabus
M.A. Second Year
With Effect from June 2010
Semester IV
XV Sociology of Change and Development

80 Marks

01. Theories of Development and Underdevelopment

- a. Modernization Theories.
- b. Centre-periphery.
- c. World – systems.
- d. Unequal exchange.

02. Paths of Development

- a. Capitalist.
- b. Socialist.
- c. Mixed Economy.
- d. Gandhian.

03. Development of Marathwada Region

- a. Development Process.
- b. Marathwada Vikas Andolan: Nature and Role
- c. Marathwada Vaidhanik Vikas Mandal:
Nature, functions and effects.
- d. Primary Education in Marathwada:
Nature and Contemporary situation.

- e. Agriculture Education in Marathwada:
Nature and Contemporary situation.

04. Developmental projects in Marathwada

- a. Nath sagar – Jaykwadi Project.
- b. Shankarro Chavan Vishnupuri Project.
- c. Thermal Power station Parali Vaijanath.
- d. Tribal Development Project.

References:

- 01. Abraham, M.F. 1990, Modern Sociological Theory; An Introduction, New Delhi, OUP.
- 02. Agrawal, B. 1994, A Field of One's Own: Gender and Land Rights in South Asia, Cambridge; Cambridge University Press.
- 03. Appadurai, Arjun, 1997; Modernity at Large; Cultural Dimensions of Globalisation, New Delhi, OUP.
- 04. Dereze, Jean and Amartya Sen; 1996; India: Economic Development and Social Opportunity, New Delhi: OUP.
- 05. Desai, A.R.; 1985; India's Path of Development; A Marxist Approach, Bombay: Popular Prakashan, (Chapter 2.)
- 06. Giddens Anthony, 1996, :Global Problems and Ecological Crisis" in Introduction to Sociology. IInd Edition: New York: W.W. Norton & Co.
- 07. Haq. Mahbub UI. 1991. Reflections of Human Development. New Delhi, OUP.
- 08. Harison, D. 1989, The Sociology of Modernisation and Development, New Delhi: Sage.

09. Moor, Wilbert and Robert Cook, 1967, Social Change, New Delhi; Prentice Hall (India).
10. Sharma, S.L.; 1980, "Criteria of Social Development", Journal of Social Action. Jan-Mar.
11. Sharma, S.L.; 1986, Development; Socio-Cultural Dimensions. Jaipur; Rawat (Chapter I).
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15. UNDP Sustainable Development, New York: OUP.
16. World Bank, 1995; World Development Report, New York.
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Sociology Syllabus
M.A. Second Year
With Effect from June 2010
Semester IV
XVI Gender and Society

80 Marks

01. Gender and society in India

- **Economy:** Marginalisation of women and sexually division of Labour.
- **Polity:** Reservation for women,
- **Religion and culture:** Women's nature, women as repositories of cultural practices and traditions, Marriage, dowry and property.
- **Personal laws and civil code:** Hindu code bill, Shariat, Muslim Personal law Christian Law, customary law and tribal women

02. Issues affecting the Quality life of women.

- Health, Education, Land rights.

03. Major Social issues

- Development, Communalism, Violence, Human rights.

Reference:

01. Altekar, A.S., 1983; *The Position of Women in Hindu Civilisation*, Delhi; Motilal Banarasidass, Second Edition: P Fifth Reprint.
02. Chodrow, Nancy, 1978, *the Reproduction of Mothering*, Berkeley: University of California Press.
03. Desai, Neera and M. Krishnaraj, 1987; *Women and Society in India*, Delhi; Ajanta.
04. Dube, Leela (Eds.) 1986; *Visibility and Power, Essays on Women in Society and Development*, New Delhi. OUP
05. Forbes, G. 1998; *Women in Modern India* New Delhi; Cambridge University Press.
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07. Maccoby, Eleanor and Carol Jacklin, *the Psychology of Sex Differences*, Stanford; Stanford University Press.
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12. Shulamitz, Reinharz and Lynn Davidman, 1991, *Feminist Research Methods*, New York: Oxford University Press.
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14. Vaid, S. & K. Sangari, 1989, Recasting Women: Essays in Colonial History, New Delhi; Kali for Women.
- 15- Mkhik; .k dkG} ¼ ik-½ vkj{k.k% I R; o foi ; k]] fple;
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Sociology Syllabus
M.A. Second Year
With Effect from June 2010
Semester IV
XVI SOCIOLOGY O DEMOGRAPHY

80 Marks

Basic Concepts of Social Variables in population Growth

Marriage-Rate of marriage, social & cultural values.

I. Intercourse, II. Conception, III. Gestation Variables

Family-Family size, family patterns and population growth, family life education.

Economic Status & Income-Income disparity and status impact on population growth: population growth and the quality of life, under development countries and population growth.

Education- population education, sex education, family planning education, adolescence education: womens education: literacy, education and fertility, mortality.

Population projection

Definition of population projection, Historical development of population projection, Need or importance of population projection, principles of population projection, Methods of population projection. India and world population projection.

Population Policy and Population Control

Population policy, History of population policy in India. Rerspectives of population policy in India and China, population education. Products of implementing population policy, causes for failure population policy.

Measures taken for population control. New approaches to population programme.

References

01. Thomson & Lewis, population Problem.
02. Bogues Donald J., principles of Demography.
03. Ford and Bejong, Social Demography.
04. Heer, David M., society and population.
05. Agrawala S. N. India's population problems.
06. United Nations, population.
07. Dr. Hans Raj, Fundamentals of Demography
(population studies with special reference to India)
08. Joel smith & Mark Evers, Ecology an Demography.
09. N. Baskara Rao, Family planning in India.
10. Ramkrishna Mukherjee, Family and planning in India.
11. McGraw hill, India's population Problem.
12. Peter R. Cox. 1976, Demography.
13. Premi Ramananna, An introduction to Demography.
14. Ahish Bose, Studies in Demography.
15. Beajju Garnier, Grography of population.
16. G. R. Madan, Indian social problems.
17. Lorimer F., The Development of Demography.
18. Hauser and Duncan, Te study of population.

19. Sinha and Zachana. Elements of Demography.
20. G. B. Saxena. Indian population Translation.
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22. Rajendra sharma, Demography and population problems.
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- 24- Rkkjk dkfuVdj vkf.k I erh dyd.khZ YkksdI d[; k' kkl=
- 25- MKW+ , Lk+ , Uk dyd.khZ o MKW I rh' k JhokLro YkksdLka[; k ' kkl=
vkf.k ykdl d[; k f' k{k.k
- 26- MKWjke ok?k ykdl d[; k' kkl=
- 27- MKWnk /kks dkpkGs ykdl d[; k' kkl=

॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)

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संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदव्युत्तर स्तरावरील प्रथम वर्षाचे CBCS Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ३० एप्रिल २०१९ रोजी संपन्न झालेल्या ४३व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.५/४३-२०१९ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदव्युत्तर स्तरावरील प्रथम वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्यात येत आहेत.

- १) एम.ए.—प्रथम वर्ष—इंग्रजी
- २) एम.ए.—प्रथम वर्ष—हिंदी
- ३) एम.ए.—प्रथम वर्ष—मराठी
- ४) एम.ए.—प्रथम वर्ष—संस्कृत
- ५) एम.ए.—प्रथम वर्ष—उर्दू
- ६) एम.ए.—प्रथम वर्ष—अर्थशास्त्र
- ७) एम.ए.—प्रथम वर्ष—भूगोल
- ८) एम.ए.—प्रथम वर्ष—इतिहास
- ९) एम.ए.—प्रथम वर्ष—तत्त्वज्ञान
- १०) एम.ए.—प्रथम वर्ष—राज्यशास्त्र
- ११) एम.ए.—प्रथम वर्ष—मानसशास्त्र
- १२) एम.ए.—प्रथम वर्ष—लोकप्रशासन
- १३) एम.ए.—प्रथम वर्ष—समाजशास्त्र

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‘ज्ञानतीर्थ’ परिसर,
विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदव्युत्तर-सीबीसीएस अभ्यासक्रम/
२०१९-२०/६७

दिनांक : १७.०६.२०१९.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

स्वाक्षरित/—

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग



SWAMI RAMANAND TEERTH

MARATHWADA UNIVERSITY, NANDED

FACULTY OF HUMANITIES

SYLLABUS OF URDU

M. A. First Year

Semester I & II

CBCS Pattern

With effect from June 2019

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Distribution of Credits for M.A. (First Year)

Urdu

Semester I & II + CBCS Pattern

W.E.F. June 2019

Semester	Paper	Name of the Course	Lecture Per Week	Total Periods	Internal	Marks Of Semester ESE	Total Marks	Credits	
I	c.c.urd-I	History of Urdu language and Literature	04	60	25	75	100	04	
	c.c.urd-II	Urdu Ghazal	04	60	25	75	100	04	
	c.c.urd-III	Dastan Aur Novel	04	60	25	75	100	04	
	c.c.urd-IV	Tanqeed Usool-o-Nazriyat	04	60	25	75	100	04	
	Total			16	240	100	300	400	16
II	c.c.urd- V	Urdu Masnavi	04	60	25	75	100	04	
	c.c.urd-VI	Afsana Aur Drama	04	60	25	75	100	04	
	c.c.urd-VII	Tahreekaat -o-Rujhanat	04	60	25	75	100	04	
	c.c.urd-VIII	Tareeqa-e- Tahqeeq (Research Methodology)	04	60	25	75	100	04	
	Total			16	240	100	300	400	16
	Grand Total Sem. I & II			32	480	200	600	800	32

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Syllabus: M.A. First Year (Urdu)

Semester I Paper I

History of Urdu language and Literature

With effect from June, 2019

Time: 3 Hours

Marks: 75

Credits: 4

Theory ESE 75 & C.A.25=100 Marks

Aims & Objectives:

1. To improve the knowledge about the Urdu language and its origin.
2. To improve and understanding the knowledge about social, cultural and historical background of Urdu language and literature.
3. To improve the knowledge and understanding about the Urdu literature and its specialty
4. To improve the knowledge of various genera of literature.
5. To improve the knowledge about scope and future of Urdu.

Detailed Study:

1. Urdu ki Ibtada se mutallique mukhtalif nazariyaat
2. Urdu zaban ka aaghaz –o-irtequa
3. Urdu ki taraaqui me Sufiya-e-kiram ka hissa
4. Urdu Nasr ka aaghaz –o- irtequa (Rujhanat asaleeb aur Khususiyat)
5. Urdu Junubi Hind me (Bahmani,Adilshahi aur Qutub shahi)
6. Urdu Shayeri Siraj aur Wali ke hawale se
7. Urdu Shimali Hind me (Golden period of Urdu)
8. Fort William College ki adabi khidmat
9. Urdu Sher-o-adab azadi se qabl
10. Urdu Sher-o-adab azadi ke baad

C.A. (Continuous Assessment)

- 1) Two class tests during the first semester for 05 Marks each.
- 2) Home Assignment during the first semester for 10 Marks.
- 3) Seminar for 05 Marks.

Reference Books:

1. Taarikhe-e Adab Urdu : Ram Babu saxena.
2. Urdu Zaban ki Taareekh : Mirza Khaleel Ahmed Baig.
3. Deccan Main Urdu : Naseeruddin Haashmi.
4. Deccani Adab ki taarikh : Mohiuddin Quadri Zor.
5. Urdu Ki Nashonuma Mein
Sufia-e-kiram ka Hissa - : Abdul Haque.
- 6..Taarikh-e- adab-e- Urdu : Gyan chand Jain
7. Mukhtasar Taareekh-e-Adab Urdu : Syed Aijaz Husaain
8. Fort William College : Ubaida Begum.
9. Delhi College : Shams ul Huda

Paper Pattern

Semester: - I Paper: - I

Q. No1:	A) Fill in the blanks	05
Q.No.2:	A) Short Answer type question with internal option.	10
	B) Short Answer type question with internal option.	10
Q.No.3:	A) Short Answer type question on prescribed syllabus with internal option.	10
	B) Short Answer type question with internal option.	10
Q.No.4:	Long Answer type question with internal option	15
Q.No.5 :	Long answer type question with internal option	15

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Syllabus: M.A. First Year (Urdu)

Semester I Paper II

Urdu Ghazal

With effect from June, 2019

Time: 3 Hours

Marks: 75

Credits: 4

Theory ESE 75 & C.A.25=100 Marks

Aims & Objectives:

1. To improve the knowledge about the Urdu Ghazal and its periods.
2. To progress and understanding the knowledge about social, cultural and historical background of Urdu Ghazal.
3. To improve the knowledge and understanding about the Urdu Ghazal and its arts and technique.
4. To improve the knowledge about special features of Urdu Ghazal.

Topic for Discussion:

1. Ghazal ki tareef aur fun.Ghazal ke mauzuaat
2. Dabistan-e-Delhi aur Dabistan Lucknow
3. Urdu Ghazal ka aaghaz-o-irtequa
4. Deccan mein Urdu Ghazal
5. Shimali Hind me Urdu Ghazal
6. Taraqqi pasand Ghazal
7. Jaded Ghazal
8. Prescribed Ghazal go Shora ki Ghazal goi.

Detailed Study:

1. **Wali Aurangabadi:**
 1. Dil ko lagti hai dilruba ki ada
 2. Shaghl behtar hai ishqbazi ka
2. **Meer Taqi Meer:**
 1. Ulti ho gayeen sab tadbiren kuch na dawa ne kaam kiya

2. Jis sar ko ghuroor aaj hai yan tajwari ka
3. **Mirza Ghalib:**
1. Kahte ho na denge hum dil agar pada paya
 2. Ki wafa hum se to ghair us ko jafa kahte hain
4. **Fani Badayuni:**
1. Maal-e- soz -e-gham haye nihani dekhte jao
 2. Shouq se nakami ki badolat koocha-e-dil hi chhoot gaya
5. **Hasrat Mohani:**
1. Bhulata lakh hoon lekin barabar yaad aate hain
 2. Nigah-e-naaz jise aashna –e-raaz kare
6. **Yaas Yagana Changezi:**
1. Hunooz zindagi-e-talkh ka maza na mila
 2. Mujhe dil ki khata par yaas sharmana nahi aata
7. **Jigar Muradabadi:**
1. Dil ko sukoon rooh ko aaram aa gaya
 2. Yak lahza khushi ka jab anjam nazar aaya
8. **Firaq gorakhpuri:**
- 1 Zameen badly falak badla mazaq-e-zindagi badla
 2. Hamnawa koi nahi hai wo chaman hum ko diya
9. **Majrooh Sultanpuri:**
1. Masarraton ko ye ahl-e-hawas na kho dete
 2. Aah-e-jan soz ki mahroomi –e- taseer na dekh.
10. **Shaheryar:**
1. Seene me jalan aankhon me toofan sa kyoun hai.
 2. Daam-e-ulfat se chhotti hi nahi.

C.A. (Continuous Assessment)

- 1) Two class tests during the first semester for 05 Marks each.
- 2) Home Assignment during the first semester for 10 Marks.
- 3) Seminar for 05 Marks.

Reference Books:

1. Kulyat-e- Wali Aurangabadi : Wali Aurangabadi
2. Intekhab-e-Kalam-e-Meer : Maulvi Abdul Haq
3. Deewan-e-Ghalib : Mirza Ghalib
4. Baqiyat-e-fani : Fani Badayuni
5. Kulyat-e- Hasrat Mohani : Hasrat Mohani
6. Aayat-e-wajdani : Yaas yagana Changezi
7. Intekhab-e-Yagana : Anjuman Taraqqi Urdu
8. Aatish-e-Gul : Jigar muradabadi
9. Gul-e-Naghma : Firaq Gorakhpuri
10. Ghazal/Kulyat-e-Majrooh : Majrooh Sultanpuri
11. Ism-e-Aazam : Shaheryar
12. Ghazal ki sarguzisht : Akhtar Ansari
13. Ghazal aur Mutalia-e-Ghazal : Ibadat Brailvi
14. Jadeed Ghazal : Rasheed Ahmed Siddiqui
15. Ghazal ke jaded rujhanat : Khalid Ilwi
16. Urdu shairi ka fanni irteqa : farman Fatehpuri
17. Urdu Ghazal : Kaamil Quraishi.
18. Jadeed Shairi : Ibadat Barelvi.
19. Hamari shairi : Masood Hussain Khan
20. Urdu Shaiiri ka mizaj : Vazeer Aagha.

Paper Pattern

Semester:- I Paper :- II

- | | | |
|-----------|---|----|
| Q.No.1: | A) Fill in the Blanks | 05 |
| Q.No.2: | Reference to the context any four out of six from
Ghazal couplets | 20 |
| Q.No.3 :- | A) Short Answer type question on prescribed syllabus
with internal option. | 10 |
| | B) Short Answer type question with internal option. | 10 |
| Q.No.4:- | Long Answer type question with internal option | 15 |
| Q.No.5 :- | Long answer type question with internal option | 15 |

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Syllabus: M.A. First Year (Urdu)

Semester I Paper III

Dastan aur Novel

With effect from June, 2019

Time: 3 Hours

Marks: 75

Credits: 4

Theory ESE 75 & C.A.25=100 Marks

Aims and objectives:

1. To improve the knowledge about the Dastan and Novel and its origin.
2. To progress and understanding the knowledge about social, cultural and historical background of Dastan and Novel.
3. To improve the knowledge and understanding about the Dastan and Novel and its art and technique.
4. To improve the knowledge of various genera of Dastan and Novel.

1.Dastan :

Topics of Discussion:

1. Dastan ki tareef, Dastan ke mauzuaat aur anasir-e-tarkeebi, Urdu Dastan ka Aaghaz-o-irtequa aur tahzeebi anasir, Fort William College ki Dastanen. Syed Hyder Bakhsh Hydri ka usloob –e- nigarish.

2. Novel:

Topics of Discussion:

Novel ki Tareef aur ajzaye tarkeebi, Novel ka fun, Urdu Novel ka aaghaz –o-irtequa, Abdul Haleem Sharar Lucknowi ki novel nigari

Detailed Study:

1. Qissa Hatim Tai se Pahla Qissa Husn Banu ka
2. Pahla sawal , Hatim ke jane ka aur pahli shart baja lane ka:
By Syed Hyder Bakhsh Hydri
3. Firdous-e- Bareen: By Abdul Haleem Sharar Lucknowi

Prescribed books:

1. Qissa Hatim Tai (Aarayesh-e-Mahfil): By Syed Hyder Bakhsh Hydri
Maktaba Jamia Ltd. Jamia Nagar, New Delhi. 25.
2. Firdaus-e- Bareen: By Abdul Haleem Sharar Lucknowi
Maktaba Jamia Ltd. Jamia Nagar, New Delhi. 25.

C.A. (Continuous Assessment)

- 1) Two class tests during the first semester for 05 Marks each.
- 2) Home Assignment during the first semester for 10 Marks.
- 3) Seminar for 05 Marks.

Reference Books:

1. Novel kya hai : Md.Ahsan Farooqui & Noor ul Hasan Hashmi
2. Urdu Novel ki tareekh : Ali Abbas Hussaini
3. Novel ka fun : Abul kalam Qasmi
4. Biswin sadi mein Urdu Novel : Prof.Yousuf Sarmast
5. Urdu nasr ka tanqueedi mutaliya : Dr.Sunbul Nigar
6. Dastan ka fun : Dr Athar Parvez
7. Dastan se afsane tak : Viqar Azeem
8. Urdu Dastan: Tahqeeq o tanqueed : Qamar ul Huda fareedi

Paper Pattern**Semester: - I Paper: - III**

Q. No.1:-	A) Fill in the blanks	05
Q.No.2:-	Reference to the context any four out of six from Dastan and Novel	20
Q.No.3 :-	A) Short Answer type question on prescribed syllabus with internal option.	10
	B) Short Answer type question with internal option.	10
Q.No.4:-	Long Answer type question with internal option	15
Q.No.5 :-	Long answer type question with internal option	15

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Syllabus: M.A. First Year (Urdu)

Semester I Paper IV

Tanqeed Usool-o-Nazriyat

With effect from June, 2019

Time: 3 Hours

Credits: 4

Theory ESE 75 & C.A.25=100 Marks

Marks: 75

Aims and objectives:

1. To improve the knowledge about the Criticism and its origin.
2. To progress and understanding the knowledge about social, cultural and historical background of Criticism.
3. To improve the knowledge and understanding about the Criticism and its arts and technique.
4. To improve the knowledge of various genera of Criticism.
5. To improve the knowledge of eastern criticism and western criticism.

Topic for Discussion:

1. Tanqeed ki tareef aur mafhoom.
2. Tanqeed ki zaroorat'Ahmiyat –o-ifadiyat
3. Urdu Tanqeed ka qadeem sarmaya(Manzoomat,Asateza ki islahen, Mushayere,Tazkare)
4. Tazkaron ki Tanqeedi ahmiyat
5. Urdu Tanqeed ka aagaz-o-irteqa

Detailed Study:

1. Adabi Tanqeed ke usool
2. Tanqeed aur taqleeq ka talluq
3. Mashraqi tanquidi riwayat
(Arabic ,Persian aur Sanskrut ke hawale se)

Maghrabi Tanqeed :

1. Aflatoon
2. Arastoo
3. I.A. Richards.
4. Matthew Arnold
5. T.S. Eliot

C.A. (Continuous Assessment)

- 1) Two class tests during the first semester for 05 Marks each.
- 2) Home Assignment during the first semester for 10 Marks.
- 3) Seminar for 05 Marks.

Reference Books:

1. Fan-e-tanqueed aur tanqueed nigari: - Noor ul Hasan Naqvi
2. Urdu Tanqued ka Irteqa: - Ibadat Baralvi.
3. Mashraqi shariyat aur Tanqeed ki riwayat:- Abul Kalam Qasmi
4. Nazriyati Tanqeed : Masayel –o- Mabahis:- Abul Kalam Qasmi
5. Tanqueed kya hai: - Aal Ahmed Surror.
6. Jadeed Urdu tanqueed usool-o-nazriyaat: - Sharib Rudulvi.
7. Tanqueedi Tasawaraat :- Dr.Abdul Haq
8. Arastoo se Eliot tak :- Dr. Jameel Jalibi
7. Urdu Tanqueed ke memaar: - M.Habeed Khan.
9. Urdu tanqueed Haali se Kaleem tak :- Syed Mohammed Nawab Kareem.
10. Mashriq –o- Maghrib mein Tanqueedi tasawarat ki tareekh :- Mohd.Hasan

Paper Pattern

Semester: - I

Paper: - IV

Q.No.1 :-	A) Fill in the blanks	05
Q.No.2 :-	A) Short answer type question with internal option	10
	B) Short answer type question with internal option	10
Q.No.3 :-	A) Short Answer type question on prescribed syllabus with internal option.	10
	B) Short Answer type question with internal option.	10
Q.No.4:-	Long Answer type question with internal option	15
Q.No.5 :-	Long answer type question with internal option	15

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Syllabus: M.A. First Year (Urdu)

Semester II Paper V

Urdu Masnavi

With effect from June, 2019

Time: 3 Hours

Marks: 75

Credits: 4

Theory ESE 75 & C.A.25=100 Marks

Aims and objectives:

1. To improve the knowledge about the Urdu Masnavi and its origin.
2. To progress and understanding the knowledge about social, cultural and historical background of Urdu Masnavi.
3. To improve the knowledge and understanding about the Urdu Masnavi and its arts and technique.
4. To improve the knowledge of various genera of Urdu Masnavi.
5. To improve the knowledge and difference between Urdu Masnavi of Delhi and Lucknow.

Topic for Discussion:

1. Urdu Masnavi ka aaghaz-o- irtequa.
2. Masnavi ki tareef fun aur us ki ifadiyat.
3. Shimali Hind aur Deccan ke Ahem Masnavi Nigar .
4. Urdu Masnavi Deccan mein.
5. Urdu Masnavi shimali Hind mein.
6. Masnainyaon ka daur e urooj.
7. Masnavi ka daur Jaded.
8. Hali,Azad aur Iqbal ki masnaviyan.

Detailed Study:

1. Sehrul Bayan: - Meer Hasan Dahelvi.
2. Gulzar-e-Naseem: - Pandit Daya Shankar Naseem.
3. Zaher-e-Ishque: - Nawab Mirza Shauque Lacknavi.

4. Saqi nama :- Allama Iqbal

C.A. (Continuous Assessment)

1) Two class tests during the first semester for 05 Marks each.

2) Home Assignment during the first semester for 10 Marks.

3) Seminar for 05 Marks.

Reference Books:

1. Urdu Masnavi Ka Irteqa :- Abdul Qadar Sarwari

2. Urdu Masnavi Shimali Hind Mein. :- Dr.Gyanchand Jain

3. Shumali Hind mein Urdu Masnavi ka Irteqa. :- Syed Mohammed Aqeel.

4. Hindustani Qisson Se Maakhooz Urdu Masnaviyaan. :- Gopi Chand Narang.

5. Urdu ki teen Masnaviyaan :- Khan Rasheed.

6. Bal-e-Jibrayeel :- Allama Iqbal

Paper Pattern

Semester:- II

Paper :- V

Q.No.1 :-	A) Fill in the blanks	05
Q. No. 2 :-	Reference to the context any four out of six from prescribed masnaviyan	20
Q.No.3 :-	A) Short Answer type question on prescribed syllabus with internal option.	10
	B) Short Answer type question with internal option.	10
Q.No.4:-	Long Answer type question with internal option	15
Q.No.5 :-	Long answer type question with internal option	15

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Syllabus: M.A. First Year (Urdu)

Semester II Paper VI

Afsana aur Drama

With effect from June, 2019

Time: 3 Hours

Credits: 4

Theory ESE 75 & C.A.25=100 Marks

Marks: 75

Aims and objectives:

1. To improve the knowledge about the Urdu Afsana aur Drama and its origin.
2. To progress and understanding the knowledge about social, cultural and historical and literary background of Afsana aur Drama.
3. To improve the knowledge and understanding about the Afsana aur Drama and its arts and technique.
4. To improve the knowledge of various genera of Afsana aur Drama.
5. To improve the knowledge of fiction writings.

Topic for Discussion:

1. Urdu Afsane ke funn aur ajzaye tarkeebi.
2. Urdu Afsane ka Fanni lawazimat (Art and Technique)
3. Urdu Afsane ka Aaghaz-o-Irteqa.
4. Ahem Ibtedai Afsana Nigar,
5. Taraqui pasand tahreek aur Afsana.
6. Jadeed Urdu Afsana aur Afsana nigar.

Detailed Study:

● **Afsana**

- 1) Sifar :- Rasheed jahan
- 2) Poore chaand ki raat :- Krishan Chander
- 3) Garam Coat :- Rajinder Singh Bedi
- 4) Bachpan:- Ismat Chughtai
- 5) Nazara darmiyan hai:- Qurrat-ul-ain Hyder.

● **Drama:-**

Topic for Discussion.

1. Drame ke funn aur ajzaye tarkeebi.
2. Drame ke Fanni lawazimat (Art and Technique)
3. Drame ki quismen
4. Urdu Drame ka Aaghaz-o-Irteqa.

Detailed Study:

1. Anar Kali: - Imtiyaz Ali Taaj.
2. Darwaze khol do :- Krishn Chandra.
Published By Maktaba Jamia Ltd. New Delhi
3. Shakuntla :- Kali Das Translated By Akhtar Hussain Raipuri
Published by Anjuman Taraqqi Urdu Hind, Delhi

C.A. (Continuous Assessment)

- 1) Two class tests during the first semester for 05 Marks each.
- 2) Home Assignment during the first semester for 10 Marks.
- 3) Seminar for 05 Marks.

Reference Books:-

- 1) Urdu Drame ki Tareekh-o-Tanqueed. :- Ishrat Rehmani.
- 2) Urdu Drame ka Irteqa :- Ishrat Rahmani.
- 3) Urdu Drama Riwayat aur Tajziya :- Atiya Nishaat.
- 4) Urdu Ka pahla Drama :- Afzaluddin Iqbal
- 5) Drama fan aur Riwayat :- Viqar Azeem.
- 6) Hamare Pasandeeda Afsane :- Athar Parvez.
- 7) Urdu Afsana Riwayat Aur Masayel :- Gopi Chand Narang.
- 8) Fan-e-Afsana Nigari :- Viqar Azeem
- 9) Naya Afsane :- Viqar Azeem.
- 10) Urdu ke Tera Afsane :- Athar parvez

Paper Pattern**Semester: - II****Paper:-VI**

Q.No.1:-	A) Fill in the blanks	05
Q.No.2:-	Reference to the context any four out of six from Asana and Drama	20
Q.No.3 :-	A) Short Answer type question on prescribed syllabus with internal option.	10
	B) Short Answer type question with internal option.	10
Q.No.4:-	Long Answer type question with internal option	15
Q.No.5 :-	Long answer type question with internal option	15

SWAMI RAMANAND TEERH MARATHWADA UNIVERSITY, NANDED

Syllabus: M.A. First Year (Urdu)

Semester II Paper VII

Urdu Tahreekat-o-Rujhanat

With effect from June, 2019

Time: 3 Hours

Marks: 75

Credits: 4

Theory ESE 75 & C.A.25=100 Marks

Aims and objectives:

1. To improve the knowledge of literary movement.
2. To improve the knowledge of various movements of literature.
3. To improve the knowledge and understanding about Aligarh Movement.
4. To improve the knowledge about Anjuman –e-Punjab and Roomani tahreek.
5. To improve the knowledge of Indian Progressive Writers Association.
6. To improve the knowledge of Modernism and post Modernism.

Topic for Discussion:

1. Tahreek ki tareef aur mafhoom, zaroorat –o- ahmiyat,
2. Classicityat kya hai?
3. Islahi Tahreekat: maqasid aur aaghaz-o- irtequa
4. Anjuman-e-Punjab ki Tahreek
5. Aligarh Tahreek
6. Roomani Tahreek
7. Taraqqi Pasand Tahreek
8. Halqa-e-Arbab-e-Zauq
9. Jadidiyat ki tahreek
10. Ma baad-e- Jadidiyat

C.A. (Continuous Assessment)

- 1) Two class tests during the first semester for 05 Marks each.
- 2) Home Assignment during the first semester for 10 Marks.
- 3) Seminar for 05 Marks.

Reference Books:-

1. Aab-e-Hayat:- Mohammed Hussian Azad.
2. Urdu ki Adabi Tahreekain :- Anwar Sadeed,
3. Adabi Tahereekien Aur Rujhnaat (Vol.I,II):- Anwar Pasha
4. Urdu Shairi Ka mizaj:- Wazeer Aagha.
5. Aligarh Tahereek Ka Pasmanzar :- Khaleeque Ahmed Ansari.
6. Urdu Taraqui Pasand Tahereek :- Khaleel-ur-Rehman Aazmi.
7. Jadeediyat aur Adab:- Aal Ahmed Suroor.
8. Jadeediyat Ki falsafiyana Asas:- Shameem Hanafi.
9. Halqa-e-Arbab-e-Zauque:- Yunus Javeed.
10. Jadidiyat aur ma baad-e-jadidiyat:- Gopichand Narang

Paper Pattern**Semester: - II****Paper:-VII**

Q.No.1:-	A) Fill in the blanks	05
Q.No.2 :-	A) Short Answer type question with internal option	10
	B) Short Answer type question with internal option	10
Q.No.3 :-	A) Short Answer type question on prescribed syllabus with internal option.	10
	B) Short Answer type question with internal option.	10
Q.No.4:-	Long Answer type question with internal option	15
Q.No.5 :-	Long answer type question with internal option	15

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Syllabus: M.A. First Year (Urdu)

Semester II Paper VIII

Tareeqa –e- Tahqeeq

(Research Methodology)

With effect from June, 2019

Time: 3 Hours

Credits: 4

Theory ESE 75 & C.A.25=100 Marks

Marks: 75

Aims and objectives:

1. To aware the knowledge of research and literary research.
2. To aware the knowledge of research methodology and all kinds of research.
3. To aware the utility importance and aims of research.
4. To give the knowledge about writing of Project Work and Thesis.
5. To give the knowledge about kinds of research and contents.
6. To aware important researcher of Urdu.

Detailed Study:

1. Tahqeeq aur tahqeeqkar:

(Tahqeeq kya hai? Tahqeeq ki quismen,tahqeeq aur tanqeed ka talluq
Tahqeeq ka doosre uloom –o-funoon se rishta,Mohqiq ke ausaaf,Nigran ke ausaaf.)

2. Tahqeeqi Maqala:

(Maqale ki quismen, maqale ki tareef, Maqale ka hajam,, Maqalon ke mukammal na hone ke asbab.tahqeeq ki manzilen,Maqale ke ajza.)

3. Mauzoo:

(Mauzoo se mutalliq hawale ki kitaben aur risale,Takraar se bachna,Kysa mauzoo munasib hai,Mauzoo kysa nahi hona chahiye,Mauzoo ki talash, Tahqeeqi mauzooat ki quismen.)

4. Khaka:(Khaka banana ek musalsil amal,Khaka darj krne ke tareeqe,Siyasi wa samaji pasmanzar,tahqeeq ke khake, Tareeq-e-adab se mutalliq khake,Asna-e-adab ky khake,Lisani mauzooat ke khake)

5. Mawad ki farahmi :

(Mawad ki quismen,Maghrif me mawad ki kasrat aur sahulaten,Urdu kitaben, Makhtutaat,Kutub khane,Niji zakheere, Makhtotaat-o-matboaat ki fehristen, Risale, risalon ke ishariye, Akhbar. Maghrif me hawale ki kitaben aur risale,Mawad kahan talash kiya jaye.)

6. Mutalia aur note lena:

(Muntakhab mutalia karna, Mutalie ki kitabon me tarjeeh ke usool,Card ya kaghaz ke purzon par note lena, Note lene ke tareeqe, Abwab ke mutabiq grohbandi kar ke note lena, Note ki khubiyen, Note lene ke chand namoone.)

7. Zaban-o-bayan:

(Be kam-o-kast tarseel, Mubalighe se parhez,Alfaz ki qatayiyat,Muqafafat, Istilahun,Aalimana ya shagufta usloob,Tahqei usloob ke kuch namoone,shakhsi ya ghair shakhsi lahja.)

8. Urdu ke ahem mohqaqeen

C.A. (Continuous Assessment)

- 1) Two class tests during the first semester for 05 Marks each.
- 2) Home Assignment during the first semester for 10 Marks.
- 3) Seminar for 05 Marks.

Reference books:

1. Tahqeeq ka fun : Gyanchand Jain
(National Quaomi Council, New Delhi)
2. Mabadiyat-e-Tahqeeq : Abdur Razakh Qureshi
(Anjuman-e-Islam Urdu Research Institute, Mumbai)
3. Usool-e-tahqeeq aur tarteeb-e-matan : Dr. Tanveer Ahmed Ilwi
Educational Publishing House, Delhi)
4. Adabi Tahqeeq Masayel aur Tajziya : Rasheed Hasan Khan
Uttar Pardesh Urdu Academy, Lucknow)
5. Imad-ut-tahqeeq : Prof. Kalb-e-Abid
Dept. of Deeniyat, Muslim University, Aligarh (U.P.)
6. Tareekh-e- Urdu Adab : Prof. Noor-ul Hasan Naqvi
Educational Book House, Aligarh (U.P.)

Paper Pattern

Semester: - II

Paper:-VIII

Q.No.1:-	A) Fill in the blanks	05
Q.No.2:-	A) Short Answer type question with internal option	10
	B) Short Answer type question with internal option	10
Q.No.3 :-	A) Short Answer type question on prescribed syllabus with internal option.	10
	B) Short Answer type question with internal option.	10
Q.No.4:-	Long Answer type question with internal option	15
Q.No.5 :-	Long answer type question with internal option	15

* * * * *

Ph.D. course work guidelines (Revised August – 2021)**1. Revised Structure of the “Ph.D. course work” to be undertaken by all Ph.D. students registered at S.R.T.M. University, Nanded.**

Paper	Title	Credits	Marks	Duration of Examination	Nature of Examination	Passing
Paper -1	Research Methodology	03	75	3 hrs	University	50%
Paper -2	Computer application (Section A)	02	50	2 hrs	University	50%
	Computer application (Section B)	01	25	*Continuous internal evaluation by concerned supervisor (one test of 25 marks)		50%
Paper -3	Research and Publication Ethics	02	50	2 hrs	University	50%
Paper -4	Foundation & Philosophy of Research (Based on basic knowledge of core research domain)	04	100	*Continuous internal evaluation by concerned supervisor review of literature 40 marks, reading, test and assignments 40 marks (Two test and two assignments), design of experiments/method 20 marks		50%
Paper-5	Paper on Research topic (Specific)	04	100	*Seminar / conferences / symposium participation – 1 credit (25 marks), research paper publications, – 1 credit (25 marks), workshop/ training related subject– 1 credit (25 marks), preparation of research proposal – 1 credit (25 marks)		50%

Note:

1 - *Internal evaluation shall be carried out by the supervisor (Records of evaluation are to be kept with supervisor till the award of the degree) and the consolidated marks statement should be submitted to university through the research centre

2 – Research student must pass in paper no. 1, 2, 3 of pre Ph.D. course work to qualify for submission of pre synopsis for confirmation of registration and research topic by concern RRC and other evaluation related to Paper No.4 and 5 (internal evaluation to be carried out by supervisor) to be submitted before submission of final Ph.D. synopsis to the university.

3 – The above revised structure shall be applicable to the research students to whom supervisor have been allocated by RAC after PET 2020 and onwards

4 – As per university circular dated No. PG/2011-12/45 dated 22/06/2021, exemption will be given to the students who have passed M.Phil. Examination with subject Research Methodology and Computer application/ Information Technology

Syllabus

Paper – 1: Research Methodology:

Paper -1	Research Methodology	(Credits – 03)	(Marks -75)	Examination Duration: 3 hrs
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Objective:

- To enable to student to understand and work methods and concepts related Research.
- To enable the student to develop research proposal and to work with research problem.
- To develop broad comprehension of research area.

Unit 1: Introduction

Meaning, Concept, nature steps types and characteristics of research. Scientific Inquiry Philosophical and Sociological foundations of research Interdisciplinary approach and its implications in various research area.

Unit 2: Methods of Research:

Qualitative and quantitative methods of research like Historical, case study, ethnography, expost facto, documentary and content analysis, survey (Normative, descriptive, evaluative etc.) field and laboratory experimental studies.

Characteristics of methods and their implications in research area.

Unit 3: Development of research proposal:

Research proposal and its elements

Formulation of research problem-criteria of sources and definition Development of objectives and characteristics of objectivities.

Development hypotheses and applications.

Unit 4: Methods of data collection:

Concept of sampling and other concepts related to sampling.

Probability and non-probability samples, their characteristics and implications. Tools of data collections, their types, attributes and uses.

Redesigning, research tools-like questionnaire, opinnaere, observation, interviews, scales and tests etc.

Unit 5: Methods of data analysis:

Analysis of qualitative data based on various tools.

Analysis of quantative data and it presentation with tables, graphs etc.

Statistical tools and techniques of data analysis-measures of central tendency, dispersion. Decision making with hypothesis testing through parametric and non parametric tests.

Validity and delimitations of research findings.

Unit 6: Report writing and evaluations:

Principles of report writing and guide lines according to style manuals.

Writing and presentation of preliminary, main body and reference section of report. Evaluation of research report.

References:

- Bajpai S. R. (1975) Methods of Social Survey and Research, Kitabghar, Kanpur.
- Hans Raj (1988) Theory and Practice in Social Research, Surjeet Publication, Kolhapur.
- Krishnaswami O. R. (1988) Methodology of Research in Social Science, Himalaya Pub. House.
- Sadhu, Singh, Research Methodology in Social Science
- Bhandarkar, Research Methodology
- Kothari, C. R. (2005) Quantitative Technique, New Delhi, Vikas Publication House.
- Gautam, N. C. (2004) Development of Research tools, New Delhi, Shree Publishers.
- Gupta, Santosh (2005) Research Methodology and Statistical Techniques, Deep and Deep Publications.
- Chandra A. and Sexena T. P. (2000) Style Manual, New Delhi, Metropolitan Book Comp. Ltd.
- Shukla, J. J. (1999) Theories of Knowledge, Ahmadabad, Karnavati Publication.
- Bhattacharya, D. K. (2004) Research Methodology, New Delhi, Excel Books.
- Brymann, Alan and Carmer, D. (1995) Qualitative data analysis for social scientist, New York, Routledge Publication.
- Best J. W. and Khan J. V. (2005) Research in Education New Delhi, Prentice Hall India.

Question Paper Pattern for University Examination

Paper – 1: Research Methodology (Question paper pattern)		
Marks: 75		Duration: 3 hrs
N.B. : <ul style="list-style-type: none">• Attempt any five questions• Question no. 1 is compulsory• Of the remaining attempt any four questions• All questions carry equal marks		
Q.1	write short notes on (Any three out of five)	15 marks
Q.2	Descriptive question	15 Marks
Q.3	Descriptive question	15 Marks
Q.4	Descriptive question	15 Marks
Q.5	Write brief note on (a) (b)	15 Marks
Q.6	Descriptive question	15 Marks
Q.7	Descriptive question	15 Marks
Q.8	Descriptive question	15 Marks

Note for Paper setter: There will be 8 questions in the question paper each of 15 marks, of which 5 questions will have attempt. Q. No.1 is compulsory question with 3 short notes, each of 5 marks covering the entire syllabus. The remaining 7 questions shall cover the entire syllabus/bits, of which any 4 will have to attempt. One question shall be of semi-detailed (brief) note type with 2 bits from a part of syllabus.

Paper – 2: Computer applications

Paper	Title	Credits	Marks	Duration of Examination	Nature of Examination
Paper – 2	Computer applications (Section A)	02	50	2 hrs	University
	Computer applications (Section B)	01	25	*Continuous internal evaluation by concerned supervisor (one test of 25 marks)	

Section A: General Applications (2 credit) (50 marks)

- MS Word: Save documents as files, Arrange the files in folders, Print, Formatting, Insert, Page Layout, References [citation & bibliography], Review [comments, tracking, compare], converting to .pdf., etc.
- MS Excel: To use as a Research database and other applications related to ‘Research Topic’, if any.
- MS Power Point Presentation
- Marathi / English Word Processing; spell check, etc.

Section-B: Subject Oriented Computer Applications (1 credits) (25 marks)

[To be completed by ‘Research Supervisor’]

- Use of Internet for Research Activities
- Use of ‘On-line Journals’ for Research Activities
- Using search engines, using INFLIBNET, JSTOR, Springer, etc. Using Virtual Libraries, communicating with scholars through Lists, Groups, and other Internet resources helpful for scholastic activities.
- Concepts related to Social Sciences, Commerce, Management, Arts, Education, Physical Education, Pharmacy, Law, Science research
- Computer Applications, Softwares, related to ‘Research Topic’ are to be designed and demonstrated by the supervisor.

The significance of critical thinking and knowledge development for the profession will be emphasised throughout. The course will involve understanding and application of qualitative and quantitative research. The course will include analysis of the research methods commonly used in the concerned faculty in which student is pursuing his/her research work. The student will be introduced to issues that arise in carrying out research. This will enable the Research student to examine the research process through the lens of applications of computers in the research field.

Completion of this section B is considered as the part of the Research Guidance and it will be mandatory for the guide to complete the course work for this half. Further, it shall be the responsibility of the Supervisor to assess the performance and the ‘Computer Skills’ developed by the Research Student. The statement of marks scored by the student shall be submitted to university (Director, BoEE) through Research Centre. The reports of all the components shall be preserved by the Research Centre.

Paper – 2: Computer Applications (Question paper pattern)		
Marks: 50		Duration: 2 hrs
N.B. : <ul style="list-style-type: none"> • Attempt any three questions • Question no. 1 and 5 is compulsory • Of the remaining attempt any one questions 		
Q.1	write short notes on (attempt any four out of five) (a) } (b) } (c) } Covering entire syllabus (d) } (e) }	20 marks
Q.2	Descriptive question	20 Marks
Q.3	Descriptive question	20 Marks
Q.4	Descriptive question	20 Marks
Q.5	Write brief note on (a) (b)	10 Marks

Paper -3: Research and Publication Ethics

Paper	Title	Credits	Marks	Duration of Examination	Nature of Examination
Paper -3	Research and Publication Ethics (Course code RPE)	02	50	2 hrs	University

Syllabus

Section A

Unit 1: Philosophy and Ethics (5 hrs.)

1. Introduction to philosophy: definition, nature and scope, concept, branches
2. Ethics: Definition, moral philosophy, nature of moral judgements and reactions

Unit 2: Scientific Conduct (6 hrs.)

1. Ethics with respect to science and research
2. Intellectual honesty and research integrity
3. Scientific misconducts: Falsification, Fabrication and Plagiarism (FFP)
4. Redundant publications, Duplicate and overlapping publications, salami slicing
5. Selective reporting and misrepresentation of data

Unit 3: Publication Ethics (10 hrs.)

1. Publication ethics: definition, introduction and importance
2. Best practices/ Standards setting initiatives and guidelines: COPE, WAME, etc.
3. Conflicts of interest
4. Publication misconduct: Definition, concept, problems that lead to unethical behaviour and vice versa, types
5. Violation of publication ethics, authorship and contributorship.
6. Identification of publication misconduct, complaints and appeals
7. Predatory publishers and Journals

Section B

Unit 4: Open Access Publishing (4 hrs.)

1. Open access publications and initiatives
2. SHERPA/RoMEO online resource to check publisher copyright & self- archiving policies
3. Software tool to identify predatory publications developed by SPPU
4. Journal finder/ Journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggested, etc.

Unit 5: Databases, Software Tools and Research Metrics (5 hrs.)

A. Databases (2 hrs)

1. Indexing databases
2. Citation databases: Web of Science, Scopus, tec.

B. Software tools (2 hrs)

Use of Plagiarism software like Turnitin, Urkund and other open source software tools

C. Research Metrics (1 hrs)

1. Impact Factor of journal as per Journal citation Report, SNIP, SJR, IPP, Cite Score
2. Metrics: h-index, G index, i10 index, altmetrics

References

- Bird, A. (2006) Philosophy of Sciences, Routledge.
- MacIntyre, Alasdair (1967) A Short History of Ethics, London.
- P. Chaddah, (2018) Ethics in competitive Research: Do not get scooped: do not get plagiarized, ISBN:978-938748086
- National Academy of Sciences, National Academy of Engineering and Institute of Medicine. (2009) on Being a Scientist: A Guide to Responsible Conduct in Research: Third Edition National Academies Press.
- Resnik, D.B. (2011). What is ethics in research & Why is it important. National Institute of Environmental Health Sciences, 1-10 Retrieved from <https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm>
- Beall, J. (2012) Predatory publishers are corrupting open access. Nature, 489(7415), 179-179. <https://doi.org/10.1038/489179a>
- Indian National Science Academy (INSA), Ethics in Science Education, Research and Governance (2019), ISBN:978-81-939482-1-7. http://www.insaindia.res.in/pdf/Ethics_Book.pdf

Paper - 3: Research and Publication Ethics (Question paper pattern)		
Marks: 50		Duration : 2 hrs
Section A		
Q.1	write short notes on Unit 1 (Attempt any one out of two)	05 marks
Q.2	Essay type question on Unit 2 with an internal choice	10 Marks
Q.3 (a)	Essay type question on Unit 3 with an internal choice	10 Marks
(b)	write short note on any one out of two based on Unit 1, Unit 2, Unit 3	5 Marks
Section B		
Q.4.	Essay type question on Unit 4 with an internal choice	10 marks
Q.5.	Essay type question on Unit 5 with an internal choice	10 marks

Format for submitting the internal marks to the University:

Swami Ramanand Teerth Marathwada University, Nanded

Internal Marks (Confidential)

1.	Name of the Research Student	:	
2.	Name and address of Research Supervisor	:	
3.	Mobile Number	:	
4.	Name of Research centre	:	
5.	Approved Title of Ph.D. Research work	:	
6.	Date of Registration	:	
7.	Subject	:	
8.	Faculty	:	

Consolidated Ph.D. Course work marks (internal) obtained by the candidates

Paper No.	Title of Paper	No. of Credit	Maximum Marks	Marks obtained
Paper - 1	Computer applications	01	25	
Paper - 4	Foundation & Philosophy of Research (Based on basic knowledge of core research domain)	04	100	
Paper - 5	Paper on Research topic (Specific)	04	100	

Name and signature of supervisor

Date:

Place:

Forwarded by Director/Principal

(With Seal)



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड— ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

Established on 17th September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



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वाणिज्य व व्यवस्थापन विद्याशाखेतील बी. कॉम. तृतीय वर्षाच्या (V&VI) - Semester) या विषयाचा सी.बी.सी.एस. पॅटर्नचा अभ्यासक्रम शैक्षणिक वर्ष २०१८-१९ पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक १४ जून २०१८ रोजी संपन्न झालेल्या ४१व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.४/४१-२०१८ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील वाणिज्य विद्याशाखेतील पदवी स्तरावरील खालील विषयाचा C.B.C.S. (Choice Based Credit System) Pattern चा अभ्यासक्रम शैक्षणिक वर्ष २०१८-१९ पासून लागू करण्यात येत आहे.

१. बी.कॉम. — तृतीय वर्ष (सत्र पाचवे व सहावे)

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदवी-सीबीसीएस अभ्यासक्रम/
२०१८-१९/२४५

दिनांक : २५.०६.२०१८.



स्वाक्षरित / -

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ विभाग)

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परिक्षा व मंल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

**-SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,
NANDED,**

Vishnupuri, Nanded-431606

B.Com.-III Year (Semester V)

Choice Based Credit System (C.B.C.S)

SYLLABUS

W.e.f. 2018-19

Paper No.	Name of the Paper	Lecture/ Week	Total Periods	Continuous Assessment (CA)	End of Semester Exam (ESE)	Total Marks	Total Credit
XXIII	Advanced Accounting-I	4	54	35	40	75	3
XXIV	Management Accounting-I	4	54	35	40	75	3
XXV	Auditing-I	4	54	35	40	75	3
Opt Any one Group as Discipline Specific Elective of the following							
Group A- Taxation							
XXVI.A	Income Tax Law & Practices-I	4	54	35	40	75	3
XXVII.A	Goods and Services Tax-I	4	54	35	40	75	3
XXVIII.A	Training & Project Work	4	54	35	40	75	3
Group B- Management							
XXVI.B	Human Resource Management-I	4	54	35	40	75	3
XXVII.B	Marketing Management-I	4	54	35	40	75	3
XXVIII.B	Training & Project Work	4	54	35	40	75	3
Group C- Banking & Insurance							
XXVI.C	E-Banking & Accounting-I	4	54	35	40	75	3
XXVII.C	E-Insurance & Accounting-I	4	54	35	40	75	3
XXVIII.C	Training & Project Work	4	54	35	40	75	3
Group D- UGC Vocational Course Tax Procedure & Practice (Only for Approved College)							
XXVI.D	Income Tax Procedure & Practice-I (TPP-IX)	4	54	35	40	75	3
XXVII.D	GST Procedure & Practice-I (TPP-X)	4	54	35	40	75	3
XXVIII.D	Training & Project Work	4	54	35	40	75	3



Group E- UGC Vocational Course Foreign Trade Procedure & Practice (Only for Approved College)							
XXVI.E	Export Procedure (FTPP-IX)	4	54	35	40	75	3
XXVII.E	Marketing Logistics (FTPP-X)	4	54	35	40	75	3
XXVIII.E	Training & Project Work	4	54	35	40	75	3
Group F- UGC Vocational Course Computer Application (Only for Approved College)							
XXVI.F	Visual Basic 6.0 (CA-IX)	4	54	35	40	75	3
XXVII.F	E-commerce & Cyber Security (CA-X)	4	54	35	40	75	3
XXVIII.F	Training & Project Work	4	54	35	40	75	3
Group G- UGC Vocational Course Banking & Insurance (Only for Approved College)							
XXVI.G	Financial Markets and Institutions in India (BI-IX)	4	54	35	40	75	3
XXVII.G	Career Avenues in Insurance-I (BI-X)	4	54	35	40	75	3
XXVIII.G	Training & Project Work	4	54	35	40	75	3
Opt Any one Subject as Generic Elective of the following							
GE-I.1	Indian Economy-I	4	54	35	40	75	3
GE-I.2	Rural Management-I	4	54	35	40	75	3
GE-I.3	Labour Laws & industrial Laws-I	4	54	35	40	75	3
GE-I.4	Travel & Tourism-I	4	54	35	40	75	3
GE-I.5	The Right to Information Act-2005-I	4	54	35	40	75	3
Opt Any one Skill Enhancement Course – III (SEC-III)							
SEC-III.1	Self-Employment-I	3	45	25	25	50	2
SEC-III.2	Tax Procedure & Practice	3	45	25	25	50	2
SEC-III.3	Intellectual Property Right-I	3	45	25	25	50	2
SEC-III.4	Accounting & Tally	3	45	25	25	50	2
SEC-III.5	Financial Literacy skills	3	45	25	25	50	2
Compulsory Paper for all Disciplines (Streams)							
	Environmental Studies	4	54	35	40	75	3

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester Vth (CBCS Pattern)

XXIII Advanced Accounting – I

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning Objectives:-The objective of the course is to equip the students with the ability to analysis interpret and use accounting information in managerial decision making and auditing.

Utility: Student can acquire knowledge of advance level of accounting for professional

Prerequisite: Basic knowledge of financial accounting

UNIT I: Accounting Standards: 11

Introduction, Significance, Scope of Accounting Standard, Accounting Standard Board, Procedure of Issuing Accounting Standards, Indian Accounting Standards, International Accounting Standards.

UNIT II: Hotel Business Accounting 11

Meaning, Importance of Hotel Business Accounting, Preparation of Final Accounts of Hotel Business.

UNIT III: Underwriting of Shares and Debentures 11

Basic Concepts, Underwriting Commission, Preparation of Underwriters Account.

UNIT IV: Branch Accounting 11

Introduction, Meaning of Branch Account, Types of Branches, Preparation of Branch Accounts as per Debtors system and Stock and Debtors system only.

UNIT V: Agriculture Accounting 10

Introduction, Meaning, Importance of Agriculture Accounting, Preparation of Agriculture Account. Problems on Farm Accounting.

Reference:

1. Advanced Accounting (S. N. Maheshwari)
2. Advanced Accounting Vol. 1, 2 (Mr. Hanif& A. Mukharjee, Tata McGraw Hill Publishing Company Ltd.)
3. Accountancy (H. R. Kotalwar) Discovery Publication, Latur
4. Advanced Accounting Vol. I (R.S.N. Pillani, Bhagwati& S. Uma- S. Chand Publication)
5. Advanced Accounting (C.A. Raj K Agrawal) : Sahitya Bhavan Publicaiton,Agra
6. Company Accounts & Auditing Practices (SangeetKedia's)
7. Corporate Accounting (C.A. Dr. P. C. Tulsian, C.A. Bharat Tulsian)

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester Vth (CBCS Pattern)

XXIV Management Accounting – I

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning Objectives: - The Objectives of this paper is to equip the students with the ability to analysis, interpret and use accounting information in Management accounting information in managerial decision making. The student is expected to have a good working knowledge of the subject. This paper provides the students an understanding of the application of accounting techniques for management.

Utility: Students can take managerial decisions regarding finance of the business

Prerequisite: Basic knowledge of accounting and mathematics

UNIT I: Introduction to Management Accounting 11

Meaning - Nature - Scope and Functions of Management Accounting - Role of Management Accounting in Decision Making - Management Accounting and Financial Accounting

UNIT II: Fund Flow Statement 11

Introduction- Meaning, Importance and Limitations of Fund Flow Statement- Preparation of Statement of Changes in Working Capital and Fund Flow Statement.

UNIT III: Cash Flow Statement 11

Meaning, Significance and Limitations of Cash Flow Statement, Preparation of Cash Flow Statement with reference to Accounting Standard No .3 (AS-3) (Indirect method only)

UNIT IV: Marginal Costing and Break Even Analysis 11

Meaning, Advantages and Disadvantages of Marginal Costing, Cost Volume Profit Analysis, Break Even Analysis, Profit Volume Ration, Margin of Safety and Maintaining the Desire Level of Profit.

UNIT V: Budget and Budgetary Control 10

Meaning, Objective, Advantages and Limitations of Budget and Budgetary Control, Preparation of Production Budget, Sales Budget

Reference:

Management Accounting by Manmohan Goyal, Sahitya Bhavan Publication, Agra

Management Accounting by R.K. Sharma & S.K. Gupta, Kalyan Publication, Ludhiyana.

Management Accounting by Khan M.Y. & Jain R. K. Tata McGrow Hill, New Delhi.

Management Accounting by N. Vinayak & I.B. Singh, Himalaya Publication House, Delhi

Management Accounting by R.S.N. Pillai & V. Bhagvati, S.Chand Publication, Delhi

Management Accounting by Dr. S.N. Mahaeshwari, Sultan Chand & Sons, Delhi.



Management Accounting by Dr. H.W. Kulkarni, Dr. V.K. Bhosle, Dr. S.M. Kolhe, Aruna Prakashan, Latur.

Management Accounting by Dr. S.S.Agrawal & Dr. S.R Agrawal Chinmay Prakashan Aurangabad

**B. Com. Third Year Syllabus (w.e.f. 2018-2019)****Semester Vth (CBCS Pattern)****XXV Auditing-I**

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning Objective:

The Objective of the course is to provide the candidates with sound Knowledge of the important provisions of the Audit and company law and their Applications in practices.

Utility: Regarding minute study to find out the fraud and errors in accounting

Prerequisite: Theoretical and Practical knowledge of accountancy

UNIT I: Introduction to Auditing**11**

Definition of Auditing, Objectives of Auditing - Primary and Secondary, Expression of Opinion, Inherent Limitations of Audit, Principles of Audit, Types of Audit, Advantages of Independent Audit, Auditing Vs Accounting, Auditing Vs Investigation.

UNIT II: Company Auditor**11**

Eligibility and Appointment, Qualifications, Disqualifications, Rotation and Removal of Company Auditor, Powers and Duties of Company Auditor.

UNIT III: Audit Planning, Procedures and Documentation**11**

Meaning, Objectives, Factors to be Considered, Sources of Obtaining Information, Discussions with Client, Overall Audit Plan, Audit Programme Meaning, Factors to be Considered, Advantages, Disadvantages, Methods of Work, Instruction before Commencing Works of Audit, Audit Working papers, Audit Notebook.

UNIT IV: Detection and Prevention of Fraud**11**

Errors-meaning, Types of Errors -Commission, Omission, Principle and Compensating, Types of Frauds, Auditor's Duties and Responsibilities in Respect of Fraud & errors.

UNIT V: Audit Evidence**10**

Introduction, Evidence for Assertions, Formation of Opinion, Type of Evidence, Audit Techniques of Collecting Audit Evidence, Audit Sampling, Types of Sampling

Reference Books

- Contemporary Auditing by Kamal Gupta, Tata Mc-Graw Hill, New Delhi
- A Hand-Book of Practical Auditing by B.N. Tandon, S. Chand and Company, New Delhi
- Fundamentals of Auditing by Kamal Gupta and Ashok Arora, Tata McGraw Hill, New Delhi
- Auditing: Principles and Practice by Ravinder Kumar, Virender Sharma, PHI Learning Pvt. Ltd., New Delhi
- Auditing and Assurance for CA IPCC by Sanjib Kumar Basu, Pearson Education, New Delhi
- Contemporary Auditing by Kamal Gupta, McGraw Hill Education Pvt. Ltd., New Delhi
- Fundamentals of Auditing by Kamal Arora and Ashok Gupta, Tata McGraw Hill, New Delhi
- Auditing: Principles and Practice by N. K. Jha, CA Purva Jain, Himalaya Publishing Pvt. Ltd., Mumbai
- Book Keeping and Accountancy by Dr. S.V. Dongare, Sankalp Publication, Latur.

**‘Group-A’
Taxation**

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester Vth (CBCS Pattern)

XXVI (A) Income Tax Law & Practices-I

No. of Lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) (Internal)	35 Marks
Total	75 Marks
Total Credit	03

Learning Objective: The Objective of the course is to provide the candidates with sound knowledge of the important provisions of the Income Tax law and their applications in solving problems on computation of Total Income and Tax Liability.

Utility: To get oneself acquaint with the direct taxes and individual income.

Prerequisite: one should possess the knowledge of basic terminologies in respect of Income Tax act and Computer ideologies.

Course Contents

Unit I: Deduction from Gross Total Income of An Individual and A Hindu Undivided Family 11

Deduction u/s 80C- in respect of sums paid or deposited in LIP, RPF, PPF, NSC, VIIIth Issue, Home loan Installments and Tuition Fees. Deduction u/s 80D- in respect of Medical Insurance premium, Deduction u/s 80DD- in respect of medical treatment of disabled dependant. Deduction u/s 80E- in respect of interest on higher education loan. Deduction u/s 80U- in respect of totally blind or physically handicapped.

Unit II: Assessment of Partnership Firm 11

Computation of GTI and Total Income of partnership firm considering the deduction U/S 80 regarding partnership firm.

Unit III: Assessment of Co-operative Societies 11

Computation of GTI and Total Income of Co-operative Societies.

Unit IV: Assessment of Association of Persons or Body of Individuals 11

Computation of GTI of Association of Persons (AOP) or Body of Individuals (BOI)

Unit V: Provisions concerning tax deducted at source 10

Basic Aspects of Deduction of Taxes at Source

Sec: 192 – TDS on Salary, Sec: 194A – TDS on Interest, Sec: 194C – TDS on Contractor, Sec: 194H – TDS on Commission, Sec: 194I – TDS on Rent

Note: - The Provisions of the Income Tax Act as applicable to assessment year at the Commencement of the academic year shall be studied for the annual and the supplementary examination.

Suggested Reading:

1. Dr H C Meharotra and Dr S P Goyal- Income Tax Law & Accounts: Sahitya Bhavan Publications.
2. Direct Taxes Law & Practice by V.K. Singhania - Taxman
3. Systematic Approach to Direct Tax by Ahuja & Gupta - Bharat Law House
4. Income Tax Ready Reckoner by Dr .V.K. Singhania - Taxman Direct Tax Laws by T.N. Manoharan - Snow White.

**‘Group-A’****Taxation****B. Com. Third Year Syllabus (w.e.f. 2018-2019)****Semester Vth (CBCS Pattern)****XXVII (A) Goods and Service Tax-I**

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning Objective: The Objective of the course is to provide the candidates with sound Knowledge of the important provisions of the GST Act and their applications in practices.

Utility: To get oneself acquaint with the new indirect tax system.

Prerequisite: One should possess the knowledge of basic terminologies in respect of indirect taxes and Old taxes such as VAT, Service tax etc.

Unit I: Introduction of Goods and Service Tax 11

Genesis of GST in India, Power to tax GST (Constitutional Provision). Title, extent and commencement, Definition of GST, What is GST, Benefits of GST, Number of Legislations, Rates of CGST/SGST and IGST, Amendments in 7th Schedule of Constitution, GST (Compensation to State) Cess

Unit II: Registration under Goods and Service Tax 11

Person liable to be Registered, Requirement and Procedure for Registration, Registration of person having multiple businesses, Registration of non-resident Taxable person

Unit III: Administration and Levy of Goods and Service Tax 11

Levy & Collection of GST [Sec.9 CGST Act], Composition Scheme under GST [Sec.10 CGST Act] Power to grant Exemptions [Sec.11 of CGST Act]

Unit IV: Concept of Supply and Time of Supply 11

Taxable Event – Supply’ Meaning and Scope of Supply [Sec.7] Schedule I,II,III Composite and Mixed Supplies [Sec.8]Time of Supply in case of Goods & Services

Unit V: Input Tax Credit 10

Conditions for Input Tax Credit, Utilization of input tax credit, Input tax credit when exempted as well as taxable supplies made Input Service Distributor [ISD] Input tax credit ailment, computation of ITC and Tax Liability under GST.

Suggested Reading:

1. CA Raj K Agrawal Study AT Home.
2. Dr.Vinod K Singhanian: Taxman publications.
3. T.N.Manoharan: Snow White.
4. Public Economic & GST, Dr. Anand Shewale, Dr. Shivprasad Dongare, Dr. Asha Bhairat, Prof. Sayyed Shabnam, Vidya Books Publishers, Aurangabad.
5. www.icai.ac.in

**‘Group-B’****Management****B. Com. Third Year Syllabus (w.e.f. 2018-2019)****Semester Vth (CBCS Pattern)****XXVI (B) Human Resource Management-I**

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Course Objectives: -

Learning Objectives of the course is to gain the holistic knowledge of human resource engaged in the business world. To understand the nature and applicability of the major HR Practice

Utility: Regarding the major living aspect of business i.e. human resources, helps to know the recruitment and other basic needs.

Prerequisite: basic management terminologies and non-financial business activities.

Unit I: An Introduction To Human Resource Management 11

Concept & nature of HRM, Evolution of HRM, objectives & Scope of HRM, Functions of HRM, Importance of HRM, Role & Qualities of HR manager

Unit II: Human Resource Planning 11

Meaning, HR forecasting & Procurement, Advantages of HR Planning, Factors Influencing HR Planning, Job design & analysis, job description & Specification.

Unit III: Human Resource Recruitment & Selection 11

Meaning, Definition, purpose and importance of HR Recruitment sources & Techniques of HR Recruitment, factors affecting HR recruitment, selection process, Interviews: objectives & Types, nature of Placement & Induction.

Unit IV: Wages & Salary Administration 11

Concept & objectives of wages & salary administration, Principles of wages & salary administration, components of remuneration, Theories of wages:- (Subsistence Theory, Wage fund theory, Bargaining theory, comparative advantage theory) factors affecting wage & salary level.

Unit V: Performance Appraisal 10

Concept & Objectives of performance appraisal, process of performance appraisal, methods of performance appraisal, benefits of performance of performance appraisal, Barriers to effective performance appraisal

Reference books:-

- 1) Human Resource Management : P. Subbarao
- 2) Human Resource Management: K. Ashwathappa
- 3) Human Resource Management : L.M. Prasad
- 4) Emerging Human resource Management : S.K. Bhatia, New Delhi
- 5) Human Resource Management – Dr. S.K.Khillare,N.B.Kale,V.P.Shelke,Aruna Publication Latur

**‘Group-B’****Management****B. Com. Third Year Syllabus (w.e.f. 2018-2019)****Semester Vth (CBCS Pattern)****XXVII (B) Marketing Management-I**

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning Objectives:- Objectives of this course is to provide a sound understanding of the basic Principles of Marketing Management and their applications in the business and industry.

Utility: To aware oneself in respect of difference between sales and marketing.

Prerequisite: Social role of business and Environmental factors affecting the business.

Unit I: Marketing: 11

Meaning and Definitions, Approaches to the Study of Marketing, Importance of Marketing, Scope of Marketing, Concept of Marketing Management, Function of Marketing Management, Marketing Management in India.

Unit II: Marketing Planning: 11

Meaning and Definitions, Objectives of Marketing Planning, Process of Marketing Planning, Kinds of Marketing Planning. Marketing Programme: Concept, Factors affecting Marketing Programme.

Unit III: Product and Pricing Decisions: 11

Concept of Product, New Product Development Process, Classification of Product, Concept of Pricing, Importance of Decisions, Factors affecting Decisions.

Unit IV: Physical Distribution and Promotion: 11

Concept of Distribution Channels, Importance of Distribution Channels, Function of Distribution Channels, Concept of Sales Promotion, Importance of Sales Promotion, System of Sales Promotion.

Unit V: Marketing Information System: 10

Concept, Features of Marketing Information System, Objectives & Importance of Marketing Information System, the Role of Computer in Marketing Information System.

Suggested Readings:

- 1) Philip Kotler – Marketing Management (Prentice Hall of India, New Delhi)
- 2) Sherlekar, S.A. – Marketing Management (Himalaya Publication House, Mumbai)
- 3) Karunakaran, K – Marketing Management (Himalaya Publication House, Mumbai)
- 4) Dr. Prabhakar Deshmukh – Marketing Management (Vidya Prakashan, Nagpur)
- 5) Dr. S. V. Kadvekar – Marketing Management (Diamond Publication, Pune)
- 6) Dr. Mahesh Kulkarni, & Dr. Pramod Biyani – Marketing and Salesmanship (Nirali Prakashan, Pune)
- 7) Marketing Management – Dr. S.K.Khillare, Dr.S.L. Kundalwar, Aruna Publication Latur

‘Group-C’

Banking & Insurance

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester Vth (CBCS Pattern)

XXVI (C) E-Banking & Accounting-I

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning Objectives

Objective of this Course is to provide a sound understanding of the basic principles of E-Banking & Accounting and their applications.

Utility: To know about the major service sector contributing banking sector together with accountancy.

Prerequisite: Online banking and basic E-terminologies.

Unit I: Introduction:	11
Commercial Bank – Definition, Function of Bank, Principles of Bank –Safety- Liquidity- Profitability and Predictability, Role and Importance of Commercial Bank.	
Unit II: Reserve Bank of India:	11
Introduction, Central Bank- Structure- Management and organization- Function of RBI- Credit Control.	
Unit III: Regional Rural Bank:	11
Introduction - Role of RRB – Nature – Capital – Organisation –Function – Maharashtra Gramin Bank.	
Unit IV: Co-Operative Banks:	11
Introduction – Maharashtra State Co-operative Bank – District Central Co-operative Banks- Urban Co-operative Banks. A role of Urban Cooperative Bank in Maharashtra.	
Unit V: National Agriculture Bank and Rural Development {NABARD}	10
Industrial Development Bank of India {IDBI}	

Reference Books

- Advance Accounts by Shukla and Grewal, S. Chand and Company (P) Ltd., New Delhi
- Advanced Accountancy by R.L Gupta and M. Radhaswamy, S. Chand and Company (P) Ltd., New Delhi
- Modern Accountancy by Mukherjee and Hanif, Tata Mc. Grow Hill and Co. Ltd., Mumbai
- Financial Accounting by Lesile Chandwichk, Pentice Hall of India Adin Bakley (P) Ltd., New Delhi
- Financial Accounting for Management by Dr. Dinesh Harsalekar, Multi-Tech. Publishing Co. Ltd., Mumbai
- Financial Accounting by P.C. Tulsian, Pearson Publications, New Delhi
- Accounting Principles by R.N. Anthony and J.S. Reece, Richard Irwin, Inc
- Financial Management: Text and Problems by M.Y. Khan and P.K. Jain, Tata McGraw Hill, New Delhi
- Financial Management: Theory and Practice by Prasanna Chandra, Tata McGraw Hill, New Delhi
- Introduction to Financial Accounting by Horngren, Pearson Publications, New Delhi
- Financial Accounting by M. Mukherjee and M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi
- Financial Accounting a Managerial Perspective, Varadraj B. Bapat, Mehul Raithatha, Tata McGraw Hill Education Pvt. Ltd., New Delhi
- Financial Management by I.M. Pandey, Vikas Publishing House, New Delhi

**‘Group-C’****Banking & Insurance****B. Com. Third Year Syllabus (w.e.f. 2018-2019)****Semester Vth (CBCS Pattern)****XXVII (C) E-Insurance & Accounting-I**

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning Objectives

Objective of this Course is to provide a sound understanding of the basic principles of E-Insurance & Accounting and their applications.

Utility: Adding up with the insurance sector as a part of social phenomenon.

Prerequisite: “Insurance is the part of social safety and not more than that” this should be complied first.

UNIT I: Introduction of Insurance**11**

Meaning of Insurance, Terms used in Insurance, Insurance and Assurance, Types of Insurance – Life Insurance and General Insurance, IRDA Regulation, Private Insurance Companies.

UNIT II: Life Insurance Corporation of India**11**

Introduction, Object, Organization and function of LIC, Life Insurance Corporation Act, 1956.

UNIT III: General Insurance of India**11**

Introduction, objectives, Organization and Function of GIC, General Insurance Business Act, 1972. National Insurance co Ltd. Kolkata, New India Assurance co Ltd Mumbai, Oriental Fire & General Insurance Co Ltd New Delhi, United India Insurance Co Ltd, Chennai.

UNIT IV: Important Provisions of General Insurance Act**11**

Reserve for unexpired risks, Additional Reserve, Commission, Investment Profit of Insurance Corporation.

UNIT V: Preparation of Final Accounts of General Insurance Corporation**10**

Revenue Account, Profit & Loss Account, Balance Sheet in Prescribed Form.

Reference Books

- Advance Accounts by Shukla and Grewal, S. Chand and Company (P) Ltd., New Delhi
- Advanced Accountancy by R.L Gupta and M. Radhaswamy, S. Chand and Company (P) Ltd., New Delhi
- Modern Accountancy by Mukherjee and Hanif, Tata Mc. Grow Hill and Co. Ltd., Mumbai
- Financial Accounting by Lesile Chandwichk, Pentice Hall of India Adin Bakley (P) Ltd., New Delhi
- Financial Accounting for Management by Dr. Dinesh Harsalekar, Multi-Tech. Publishing Co. Ltd., Mumbai
- Financial Accounting by P.C. Tulsian, Pearson Publications, New Delhi

‘Group-D’

UGC Vocational Course-Tax Procedure & Practice

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester Vth (CBCS Pattern)

XXVI (D) Income Tax Procedure & Practice-I (TPP-IX)

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning Objective: The Objective of the course is to provide the candidates with sound knowledge of the important provisions of the Income Tax law and their applications in solving problems on computation of Total Income and Tax Liability.

Utility: To get oneself acquaint with the direct taxes and individual income.

Prerequisite: one should possess the knowledge of basic terminologies in respect of Income Tax act and Computer ideologies.

Course Contents

Unit I:	Assessment of Individuals:	11
	Computation of GTI and Total Income of an individual considering the Deductions u/s 80C, 80D, 80DD and 80E only.	
Unit II:	Assessment of Hindu Undivided Families:	11
	Computation of GTI and Total Income of a HUF considering the Deductions u/s 80C, 80D and 80DD only.	
Unit III:	Computation of Tax Liability:	11
	Tax Rates in respect of individuals and HUFs, Computation of Tax Liability of an individual and a HUF.	
Unit IV:	Set-off and Carry Forward of Losses:	11
	Meaning of Set off of Losses, Set off under the same head and under the other heads, set off of capital losses, set off of business losses. Meaning of Carry forward of losses, Carry forward of capital losses, Carry forward of business losses and losses under house property income. Simple problems on set off and carry forward of losses of an individual.	
Unit V:	Deductions from GTI of An Individual and A Hindu Undivided Family:	10
	Deduction u/s 80C- in respect of sums paid or deposited in LIP,RPF,PPF,NSC VIII th Issue, Home loan Instalments and Tuition Fees. Deduction u/s 80D- in respect of Medical Insurance premium, Deduction u/s 80DD- in respect of medical treatment of disabled dependant. Deduction u/s 80E-in respect of interest on higher education loan	

Suggested Reading:

1. Dr H C Meharotra and Dr S P Goyal- Income Tax Law &Accounts: Sahitya Bhavan Publications.
2. www.icai.ac.in

‘Group-D’

UGC Vocational Course-Tax Procedure & Practice

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester Vth (CBCS Pattern)

XXVII (D) Goods and Service Tax Procedure & Practice-I (TPP-X)

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning Objective: The Objective of the course is to provide the candidates with sound Knowledge of the important provisions of the GST Act and their applications in practices.

Utility: To get oneself acquaint with the new indirect tax system.

Prerequisite: One should possess the knowledge of basic terminologies in respect of indirect taxes and Old taxes such as VAT, Service tax etc. Knowledge of Packages in respect of taxes.

Unit I: Assessment under Goods and Service Tax 11

Self-Assessment, Provisional Assessment, Scrutiny of Returns, Assessment of Non-filers of Returns, Assessment of Unregistered Persons, Scrutiny Assessment in Certain Special Cases.

Unit II: Audit under Goods and Service Tax 11

Audit by tax, Special Audit. Who may conduct the Audit? What is meant by commencement of Audit? Time limit for completion of Audit, How to conduct Audit, Finalisation of Audit.

Unit III: Inspection and Search & Seizure 11

Introduction, Power of Infection, Search and Seizure, Inspection of Goods in Movement,

Unit IV: Arrest and Prosecution Under Goods and Service Tax 11

Power to Arrest,. Power to Summon Persons to give Evidence and Produce Documents, Access to Business Premises, Officers to Assist Proper Officers

Unit V: Appeals and Revision under Goods and Service Tax 10

Adjudicating officer, Appellate Authority, Officer Subordinate to revision Authority, revision Authority, Appellate Tribunal, High Court, Supreme Court

Suggested Reading:

1. CA Raj K Agrawal Study AT Home.
2. Dr. Vinod K Singhania: Taxman publications.
3. T.N. Manoharan: Snow White.
4. www.icai.ac.in

‘Group E’

UGC Vocational Course-Foreign Trade Practices & Procedures

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester Vth (CBCS Pattern)

XXVI (E) EXPORT PROCEDURE (FTPP-IX)

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning Objective:-To make the students aware of the shipping and insurance practices and procedures which constitute the essential services for the operation of foreign trade.

Utility: Export vs. Import comparison and Balance of Payment.

Prerequisite: Basic Insurance terminologies specially general insurance plus geographical study of Countries.

Contents:

UNIT I: Export risk insurance-	11
Marine insurance- Nature, Scope, Special features, Kinds of perils, Kinds of losses, Types of marine insurance policy, Export Credit and Guarantee Corporation Ltd. and insurance covers	
UNIT II: Export packaging, labeling and marking-	11
Meaning, Definition, Introduction, Importance of packaging, 7 P's of packaging, Labeling and marking, Methods of marking, International freight marking symbols.	
UNIT III: Quality Control -	11
Meaning, Definition, Introduction, Objectives of Quality Control, Institutional set up, Methods, Problems in maintaining quality, Recent terms in quality control.	
UNIT IV: Pre-shipment Inspection-	11
Pre-shipment Inspection, ISO-9000 and ISO- 14000 series of standards, Implementation of ISO-9001-2000 quality management system, HACCP, OHSMS, IS-15000-1998, IS-18001-2000, Eco-labeling.	
UNIT V: Shipping and customs clearance -	10
Role of freight forwarding agent in shipping the goods, Steps of shipping, Multimodal transportation of goods, Tramp and liner shipping, Containerization- Advantages and disadvantages, Types of containers, Strains caused by container transports, Customs clearance of export cargo.	

Reference books;

- 1) International Trade & Export Management by Francis Cherunilam, Himalaya Publishing House, Mumbai.
- 2) International Marketing Management by R.L.Varshney & B.Bhattacharyya, Sultan Chand & Sons, New Delhi.
- 3) International Business by P.Subba Rao, Himalaya Publishing House, Mumbai
- 4) Nabhi's Exporters Manual & Documentation, Nabhi Publication, New Delhi.
- 5) Nabhi's How to Export, Nabhi Publication, New Delhi.
- 6) Nabhi's How to Import, Nabhi Publication, New Delhi.
- 7) Export procedure by M.I.Mahajan

‘Group E’

UGC Vocational Course-Foreign Trade Practices & Procedures

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester Vth (CBCS Pattern)

XXVII (E) MARKETING LOGISTICS (FTPP-X)

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning Objective -To Familiarize the students with the basics of marketing logistics and marketing practices.

Utility: To get familiar with Domestic and overseas transportation and distribution cost plus storage of goods.

Prerequisite: Selling and Distribution cost and basics of single output system.

UNIT I : Introduction to Marketing Logistic 11

Introduction, Concept of Marketing Logistics, Objectives of Marketing Logistics, Importance of Marketing Logistics, Domestic and International Logistics, Recent Developments in International Logistics.

UNIT II : International Marketing Strategies and Logistics - 11

Introduction, Objective Customer Service, Strategic Logistics Planning, Major Aspects of Strategic Logistical Planning, Factors Influencing Logistics Planning, Strategic Distribution Arrangements, The Three Important Concepts, The Cost Trade Offs, The Total Cost Concept, The Total System Concept, Challenges of the Market Place.

UNIT III : Inland Transportation - 11

Road Transport-Role of Road Transport in movement of Export and Import Cargoes, Limitations of Road Transport System, Expansion of Road Network and Modernization of Fleet, Rail Transport-Freight Traffic, Export-Import Traffic, Projections of Railway's Revenue Earning Freight Traffic, Modernization Programme, Some Important Observations.

UNIT IV :Overseas Transportation 11

Water Transport-Inland Waterways Authority of India, Central Inland Water Transport Corporation, Constraints Faced by Inland water Transport, Future Prospects, Air Transport-Organization of Air Transport, Air Services, Multi-Modal Transport

UNIT V : Warehousing- 10

Introduction, Objectives, Concept of warehousing, Elements of warehousing, Functions of Warehousing, Role of Warehouse in economic development, Warehousing alternatives, advantages of public warehouse, Warehousing corporation in India, Objective and functions of Warehousing corporations, Functions of Central warehousing corporation, Recent terms in warehousing in India.

Reference books

1. International Trade & Export Management by Francis Cherunilam, Himalaya Publishing House, Mumbai.
2. International Marketing Management by R.L.Varshney & B.Bhattacharyya, Sultan Chand & Sons, New Delhi.
3. International Business by P.Subba Rao, Himalaya Publishing House, Mumbai
4. Nabhi's Exporters Manual &Documentation, Nabhi Publication, New Delhi.



‘Group F’

UGC Vocational Course-Computer Application

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester Vth (CBCS Pattern)

XXVI (F) VISUAL BASIC 6.0 (CA-IX)

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning Objective :-

To understand the programming algorithm, process, structure & database.

- Creating & developing desktop applications.
- Easy to develop Concept of Graphics User Interface
- To develop necessary skill to use front-end Tool

Utility: To acquire knowledge regarding preparation of small scale business softwares.

Prerequisite: Basics of computer.

UNIT I: Introduction 11 Lect.

IDE-Tool bar, Project explorer, Tool box, Property window, Project types

UNIT II: Working with forms 11 Lect.

The anatomy of forms, Form properties, Events & methods, Working with MDI form

UNIT III: Programming in VB 11 Lect.

Data types, Key words, Variables, Controls, Operators, Message box , Control statement – if & select case , Looping statement – While, do...while, do...until Array Library function

UNIT IV: Visual Basics control 11 Lect.

Labels, Text box, Command button, Check box, Option button, Frame, List box, Combo box, Picture box, images controls, Scroll bar, Drive list, directory list and file list, Properties events & methods of each control

UNIT V: Database connectivity 10 Lect.

Introduction to JET engine, ODBC & ISAM loading access database

Reference Book:

1. Mastering in visual basics 6.0 by PBP publication
2. Complete visual basic by PBP publication
3. Guide to visual basics by Peter Norton.



‘Group F’
UGC Vocational Course-Computer Application
B. Com. Third Year Syllabus (w.e.f. 2018-2019)
Semester Vth (CBCS Pattern)
XXVII (F) E-Commerce and Cyber Security (CA-X)

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Objectives :

- Provide a fundamentals of the different types and key components on a business models
- Provide guiding principles behind the design and strategy of the customer web interface.
- Understand the traditional and new communication/marketing approaches that create competitive advantage in the New Economy.
- To know the importance of cyber security in business.

Utility: To know the Latest business purchasing and security while dealing with online transactions.

Prerequisite: Online business meaning and personal security legal matters.

UNIT I: Introduction to E-Commerce,

11 Lect.

- What is E-Commerce, Advantages & Disadvantages, Classification of E-Commerce B2B, B2C, C2B, C2C

UNIT II: E-Marketing

11 Lect.

- Definition, E-Market uses, Advantages & disadvantages of e-marketing, EDI

UNIT III: E-Security

11 Lect.

- Security on Net, E-Business Risk Management

UNIT IV: Cyber Security

11 Lect.

- Encryption, Symmetric Cryptography, Asymmetric Cryptography, RAS Algorithm
- Cyber Attacks, Hacking, Phishing, IP Spoofing, Firewalls, SSL

UNIT V: Digital Signature

10 Lect.

- Technology behind digital signature, Creating a digital signature, Verifying the digital signature, Digital signature & PKI

References:

- 1) C.V.S. Murthy – E-Commerce Concept Models , Strategies
- 2) P.T. Joseph – A Managerial Perspective
- 3) E-Commerce by Kamlesh Bajaj, Debjani Nag
- 4) E-Commerce by Dr. S. S. Agrawal & Dr. Shubhangi Dive, Chinmay Prakashan A’bad

‘Group G’

UGC Vocational Course-Banking & Insurance

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester Vth (CBCS Pattern)

XXVI (G) Financial Markets and Institutions in India (BI-IX)

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Objectives

1. To give the students an understanding of the operations and developments of Financial Market in India.
2. To enable them to gain an insight into the functioning and role of financial institutions in the Indian economy.

Utility: Acquiring Indian financial system as a whole.

Prerequisite: Market and electronic modes of transacting.

Unit I: Indian Financial System-I

Lectures 10

Financial institution – Regulatory, Intermediaries, Non intermediaries, Financial Markets- Primary and secondary markets, Indicators of Financial development, Role of financial system in economic development.

Unit II: Indian Financial System-II

Lectures 10

Indicators of Financial development, Role of Financial System in economic development, Role of Banks in development of Industrial sector in India.

Unit III: Indian Money Market

Lectures 10

Nature and scope of Indian money market, Structure and characteristics of Indian money market Segments of Indian money market, Major Institutions of Indian money market Drawbacks of Indian money market, RBI and Indian money market

Unit IV: Indian Capital Market

Lectures 14

Structure of Indian Capital Market, characteristics of Indian Capital Market, National Stock exchange - Working of NSE, Bombay stock Exchange - Working of BSE, Calculation of Sensex and derivatives, Over the counter exchange of India (OTCEI) Advantages, Objectives and working

Unit V: E-Payment Channels

Lectures 10

Electronic Clearing Service - ECS Credit & ECS Debit ,Immediate Payment Service (IMPS), Credit Card Services ,AADHAAR Enabled Payment System & Bharat Bill Payment System (BBPS) ,SWIFT- Features, SWIFT Code, SWIFT standards & SWIFT Transactions

Reference Books:

1. Indian Economy - Ashwini Mahajan and Gaurav Datt, S. Chand and Company,
2. <https://rbidocs.rbi.org.in/rdocs/Publications/PDFs/0FLTP577BF4E172064685A26A73A6BC9210EC.PDF>
3. Report on Trend and Progress of Banking in India 2014-15, RBI
4. Internet Banking in India – Guidelines
<http://rbidocs.rbi.org.in/rdocs/notification/PDFs/21569.pdf>
<https://www.sebi.gov.in>

**‘Group G’****UGC Vocational Course-Banking & Insurance****B. Com. Third Year Syllabus (w.e.f. 2018-2019)****Semester Vth (CBCS Pattern)****XXVII (G) Career Avenues in Insurance (BI-X)**

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Objective

To acquaint the student with the development of the Insurance industry and career opportunities available in the same.

Utility: To know about product designing and demand in the market.

Prerequisite: Marketing strategies and personality development.

Unit I: Identification of Customer Needs**Lectures 10**

Understanding the Customers, Understanding different cultures. Understanding Economic background of the customers, finding different needs regarding life and general Insurance as per social and economic background.

Unit II: Product Design & Development**Lectures 10**

Product development process, product design/ development, Major concerns in Indian insurance industry, product design in emerging scenario

Unit III: Insurance Pricing**Lectures 10**

Fundamentals of insurance pricing, Objectives, types of rating consideration, Rating in life insurance, Life insurance Vs. Non-life insurance pricing.

Unit IV: Marketing of insurance product**Lectures 12**

The marketing concept, marketing of insurance product, critical success factors for insurance players, Distribution channels, marketing strategies of insurance players in India.

Unit V: Insurance intermediaries**Lectures 12**

Distribution of insurance products, insurance intermediaries and their functioning, surveyors and loss assessors, third party administrators, agents, brokers corporate agent.

Reference Book:

- 1] Insurance and Risk management, Dr. P.K. Gupta, Himalaya publishing House.
- 2] Insurance- Principles and practices – M.N. Mishra.

‘Generic Elective’ (Any One)
B. Com. Third Year Syllabus (w.e.f. 2018-2019)
Semester Vth (CBCS Pattern)
GE-I.1 Indian Economy-I

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Objective

To acquaint the student with the development of knowledge about Indian Economy and various system of control the Economic crises in Indian Economy.

Utility: To be familiar with the Indian Economic system.

Prerequisite: Basics of Business Economics.

Unit I: Introduction to Indian Economy

No. of Lectures 11

Meaning and Underdeveloped Economy, Basics Characteristics of Indian Economy, Major Issues of Development, The Determinants of Economic Development.

Unit II: National Income of India

No. of Lectures 11

National Income Estimates in India, Trades in National Income, Growth and Structure, Limitations of National Income, Estimation in India.

Unit III: Human Resource and Economic Development

No. of Lectures 11

The Theory of Democratic Tradition, Size and Growth Rate of Population in India, The Sex Composition and Age Composition of Population, Urbanization and Economic Growth in India.

Unit IV: Occupational Structure and Economic Development

No. of Lectures 11

Economic Development and Occupational Distribution, Change in Occupational Distribution in selected Countries, Workforce Participation Rates in India, Occupational Pattern in Indian Economy.

Unit V: Infrastructure in Indian Economy

No. of Lectures 10

Energy and Power, Transport System in India and Economic Development, Communication System in India, Urban Infrastructure

Reference Books

1. Indian Economy – by Misra Puri
2. Indian Economy- by Datt Ruddar, KPM Sundharam

**‘Generic Elective’ (Any One)****B. Com. Third Year Syllabus (w.e.f. 2018-2019)****Semester Vth (CBCS Pattern)****GE-I.2 Rural Management-I**

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Objective

To adequate the basic knowledge about Indian rural structure and the various Institution regarding to rural development, politics in the rural Institutions.

Utility: To get the knowledge in respect of Rural areas and other relevant things.

Prerequisite: Basics of Management and rural study of India.

Unit I: Rural Institutions and Rural Leadership**No. of Lectures 11**

Panchayat Raj Institutions and District Administration Economic Institutions- Cooperatives, Banks, Self Help Groups

Unit II: Indian Rural Economy**No. of Lectures 11**

Impact of Democratization, Industrialization, Modernization, Urbanization, Globalization of Indian Rural Economy.

Unit III: Human Resources in Rural Management**No. of Lectures 11**

Human Resources for Rural Manufacturing, Infrastructure for Rural manufacture, local resources to development, Problems of rural employment.

Unit IV: Rural Production Systems and Livelihoods**No. of Lectures 11**

Agriculture, Horticulture, Sericulture, Animal Husbandry, Dairying and Fishery

Unit V: Agriculture and Rural Economics**No. of Lectures 10**

Traditional agriculture and its modernization, Role of agriculture in economic development, Introduction to Agri-Business

Reference Book:

Arora, R.C (1979) *Integrated Rural Development*, New Delhi: S.Chand

Desai, V. *Rural Development* (1976) Vol. I to IV. Himalaya Publishing House.

Maheswari, S.R. (1995). *Rural Development in India*, Sage: New Delhi.

and options. *The Fourth World*, No.8. October,4

Joshi, P.C (1975) *Land Reforms in India*, New Delhi: Institute of Economic Growth

Rao, Hanumantha C (1965) *Agricultural Production: Functions Costs and Returns in India*, Delhi: Asia

‘Generic Elective’ (Any One)
B. Com. Third Year Syllabus (w.e.f. 2018-2019)
Semester Vth (CBCS Pattern)

GE-I.3 Labour Laws and Industrial Laws-I

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning Objective:

The objective of the course is to provide the candidates with sound Knowledge of the important provisions of the Labour laws and Industrial laws and their applications in practice.

Utility: To introduce and apply laws regarding business and implement them in the business.

Prerequisite: Basics of Law and fundamental acts.

Unit I: Employee’s Provident Fund & Miscellaneous Provisions Act, 1952 **11**

Introduction, Applicability of The Act, Employees Covered Under The Scheme, Employees Provident Fund Scheme, Employees Pension Scheme, Employees Deposit Linked Insurance Scheme

Unit II: Payment of Bonus Act, 1965 **11**

Introduction, Objects And Scope of The Payment of Bonus Act, 1965, Applicability of Act, Set-On And Set-Off Provisions

Unit III: Payment of Gratuity Act, 1972 **11**

Introduction, Applicability Of The Act, Miscellaneous Provisions, Partial Forfeiture of Gratuity And Total Forfeiture of Gratuity

Unit IV: Employees State Insurance Act, 1948 **11**

Introduction, Benefits, Applicability, Meaning of Employer And Employee, Contribution To ESIC Fund

Unit V: Minimum Wages Act, 1948 **10**

Introduction, Philosophy Behind The Enactment, Definitions, Provision, Procedure For Fixing And Revising Minimum Wages (Sec.5)

References:

- 1) Industrial , labour & General law - Sangeet kedia’s
- 2) Labour & Industrial law - P. K. Padhi, PHI Learning Pvt. Ltd.
- 3) Labour Laws – Ajit Prakashan’s
- 4) Labour & Industrial laws – Ravi Shinde, Asian law House
- 5) Industrial & labour law - CA Shivangi Agrawal, Study At Home
- 6) Labour & Industrial Law - Mishra and Puri.



‘Generic Elective’ (Any One)

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester Vth (CBCS Pattern)

GE-I.4 Travel and Tourism-I

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Objectives: A Study of function of Travel agency and Tour operation.

Utility: Familiarized with the concepts of natural beauties and gifts to the countries.

Prerequisite: Natural heritage of India.

Unit I: Modes of Travel **11**

{a} Road Transport {b} Rail Transport {c} Air Transport {d} Water Transport

Unit II: Approval of Travel Agents and tour Operators **11**

Approval by Department of tourism, Government of India, IATA rules and regulations for approval of a travel agency. Approval by Airlines and Railways.

Unit III: Functions of a Travel Agent **11**

Understanding the functions of a travel agency travel information and counseling to the tourist, Itinerary preparation, reservation, ticketing, preparation and marketing of Tour packages, handling business/ corporate clients including conference and conventions. Sources of income: commission, Service Charges.

Unit IV: Travel Formalities **11**

Travel Formalities, Passport, Visa, Health requirements, Taxes, customs, currency, travel insurance, baggage and airport information. Definition of Travel Agency and differentiation between Travel Agency and Tour Operation business. Arrangements with Hotels, airlines and transport agencies.

Unit V: Tourism Marketing **10**

Meaning, Definition, Advantages and Disadvantages of tourism marketing.

Reference Book –

- 1) Tourism development by A. K. Bhatia
- 2) Successful Tourism management by Pran Math Seth.



‘Generic Elective’ (Any One)
B. Com. Third Year Syllabus (w.e.f. 2018-2019)
Semester Vth (CBCS Pattern)
GE-I.5 The Right to Information Act-2005-I

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Objective: To develop the RTI Knowledge and its application in different departments of state and central Govt. for transparent Administration.

Utility: To know ones basic rights.

Prerequisite: Basics of laws and Indian act.

Unit I : INTRODUCTION

No. Of Lectures: 11

Historical Review of RTI in India abroad,Need of RTI,Right to Information in India
 Problems in Accessing Information,Developments on Right to Information in India.

Unit II: Right to Information Act, 2005

11

Basic Elements of RTI,Objectives of RTI,Importance of RTI,Suo-Mutu DisclosureInclusion of Private Bodies

Unit III: Right to Information and obligations of Public Authorities

11

Right to Information Section. 3.,Obligations of Public Authorities Section 4.,Designation of Public information of Rules Section 5.,Request for Obtaining Information Section. 6.,Disposal of Request Section 7.

Unit IV : Disclosure of Information

11

Exemption from Disclosure of Information,Grounds for Rejection to Access in Certain Cases Section. 9., Severability Section 10., Third Party Information Section 11.

Unit V: Practices of Right to Information Act

10

Meaning and scope of Right to information act, Its Advantages and disadvantages information rules and regulation for Right to information, Practices of Right to Information act.

Reference Book

- Pradhod Kochare 10th Editio – 2015, Shekhar Gaikwad, Yeshoda Publication, Pune.
- Right to Information Act – 2005, Dr. Balaji Kompalwar, Suryamudra Prakashan, Nanded 2017
- Right to Information Act- 2005, Mr. Ashok Sabbon, New Stethoscope Prokoshan, Nagar 2008
- The Right to Information Act, 2005, Diglot Edition, Sunil Sochdeva, Rajasthan Low House, Jodhpur-Rajasthan
- Right to Information Act and Good governance, Prof. Anand Paliwal Dr. Krishnakishor Trivedi , Himanshu Publication Ed. 2017
- Understanding Basics of RTI Act, Shailesh Gandhi- Moneylife Foundation.
- The Right to Information Act, P.K. Das, Universal Low Publishing
- The Right to Information Act. , Dr.S.S. Jadhav, Nanded



‘Skill Enhancement Course – III’ (SEC-III) (Any One)

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester Vth (CBCS Pattern)

SEC-III.1 Self Employment-I

No. of lectures	45
End of Semester (University Exam)	25 Marks
Continuous Assessment (CA) Internal	25 Marks
Total	50 Marks
Total Credit	02

Objective: To develop and adopt the various skills in the students for develop their career and take the self-employment skills.

Utility: “self-employment is best employment” to know the advantages of it.

Prerequisite: Employment opportunities and other relevant aspects.

UNIT I: Introduction 10

Introduction, Meaning and Types of Unemployment, Caused and Remedies on unemployment, Meaning and Characteristic of Self Employment, Meaning and Characteristic of Skills.

UNIT II: Entrepreneurship for Self-Employment 10

Need & scope of entrepreneurship development, Different approaches of entrepreneurship for self-employment, Entrepreneurship & skill development, Developing skilled manpower.

UNIT III: Entrepreneurial Competencies for Self-Employment 12

Motivating youth for self-employment as career option, Understanding behavioural competencies for self-employment, Developing behavioural competencies for self-employment.

UNIT IV: Government of India Support for Entrepreneurship 13

Overview of Startup India, Make in India, Atal Innovation Mission (AIM), Support to Training and Employment programme for Women (STEP), Jan Dhan-adhaar- Mobile (JAM), Digital India, Pradhan Mantri Kaushal Vikas Yojana (PMKVY), National Skill Development Mission

Reference Books:

1. Skill for Employability-By Rosalie Marsh
2. Fundamental of Entrepreneurship- By Sanjay Gupta
3. Skill Development & Entrepreneurship in India- By Rameshwari Pandya
4. Opportunities for Women Entrepreneurship- By NIIR Board of Consultant and Engineers.
5. Report on Skill for All New Approaches to Skilling India By: FICCI Skill Development Forum.



‘Skill Enhancement Course – III’ (SEC-III) (Any One)

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester Vth (CBCS Pattern)

SEC-III.2 Tax Procedure and Practice

No. of lectures	45
End of Semester (University Exam)	25 Marks
Continuous Assessment (CA) Internal	25 Marks
Total	50 Marks
Total Credit	02

Learning Objectives :

To develop the skill among the students to compute taxable income and tax liability of the assessee.

Utility: To get oneself acquainted with the tax system.

Prerequisite: One should possess the knowledge of basic terminologies in respect of indirect taxes & direct taxes and Old taxes such as VAT, Service tax etc.

UNIT I: Assessment of Individual and Hindu Undivided Family **12**

Computation of Gross Total & Total Income of Individual and HUF

UNIT II: Tax Liability of Individual and Hindu Undivided Family **10**

Computation of Income Tax Liability of Individual and HUF

UNIT III: Assessments of Firms and Companies **13**

Computation of Gross Total Income and Total Income of Firms and Companies

UNIT IV: Tax Liability of Firms and Companies **10**

Computation of Income Tax Liability of Firms and Companies

Reference Books

- Dr. H.C. Mehrotra & Dr. S.P. Goyal-Income Tax Law and Accounts-Sahitya Bhavan Publication.
- www.icai.ac.in

**‘Skill Enhancement Course – III’ (SEC-III) (Any One)****B. Com. Third Year Syllabus (w.e.f. 2018-2019)****Semester Vth (CBCS Pattern)****SEC-III.3 Intellectual Property Right-I**

No. of lectures	45
End of Semester (University Exam)	25 Marks
Continuous Assessment (CA) Internal	25 Marks
Total	50 Marks
Total Credit	02

Learning Objectives :

To develop the knowledge about intellectual property right and patent rights in the students in various business and professions.

Utility: To get the future aspect of IPR and research.

Prerequisite: Basics of Research and other legal things.

UNIT I: Introduction**12**

Meaning, Relevance, Business Impact, Protection of Intellectual Property, Copyrights, Trademarks, Patents, Designs, Utility Models, Trade Secrets and Geographical, Indications, Bio-diversity and IPR, Competing Rationales for Protection of Intellectual Property Rights, Introduction to the leading International Instruments concerning Intellectual Property Rights: the Berne, Convention, Universal Copyright Convention, The Paris Convention, Patent Co-operation Treaty,,TRIPS, The World Intellectual Property Organization (WIPO) and the UNESCO

UNIT II: Patents**13**

Concept of Patent,Product / Process Patents & Terminology,Duration of Patents- Law and Policy Consideration Elements of Patentability,- Novelty and Non Obviousness (Inventive Steps and Industrial Application, Non- Patentable Subject Matter,Procedure for Filing of Patent Application and types of Applications,Procedure for Opposition,Revocation of Patents,Ownership and Maintenance of Patents,Assignment and licensing of Patents,Working of Patents- Compulsory Licensing,Patent Agent- Qualification and Registration Procedure

UNIT III: Patent Databases & Patent Information System**10**

Patent Offices in India,Importance of Patent Information in Business Development,Patent search through Internet, Patent Databases

UNIT IV: Preparation of Patent Documents**10**

Lab Notebooks/Log Books/Record Books,Methods of Invention Disclosures,Patent Application and its Contents,Writing of the Patent Document

List of Recommended Books and References:

- Aswani Kumar Bansal : Law of Trademarks in India
- B L Wadehra : Law Relating to Patents, Trademarks, Copyright, Designs and Geographical Indications.
- G.V.G Krishnamurthy : The Law of Trademarks, Copyright, Patents and Design.
- Satyawrat Ponkse : The Management of Intellectual Property.
- S K Roy Chaudhary & H K Saharay : The Law of Trademarks, Copyright, Patents and Design.Legal Aspects of Technology Transfer: A Conspectus
- Office of the Controller General of Patents, Designs & Trade (CGPDTM) : Manual of Geographical Indications Practice and Procedure
- Office of the Controller General of Patents, Designs & Trade (CGPDTM) : Manual of Patent Office Practice and Procedure Office of the Controller General of Patents, Designs & Trade (CGPDTM) : Manual of Designs Practice and Procedure
- Office of the Controller General of Patents, Designs & Trade (CGPDTM) : Revised Draft Manual of Trademarks Practice and Procedure
- Office of the Controller General of Patents, Designs & Trade (CGPDTM) : Trade Marks Agents



‘Skill Enhancement Course – III’ (SEC-III) (Any One)

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester Vth (CBCS Pattern)

SEC-III.4 Accounting and Tally

No. of lectures	45
End of Semester (University Exam)	25 Marks
Continuous Assessment (CA) Internal	25 Marks
Total	50 Marks
Total Credit	02

Learning Objectives :

To develop the knowledge of student in accounting treatment with the help of computer software technology

Utility: To know the advanced packages and time saving.

Prerequisite: ideologies of computer and accounting knowledge.

Unit I: - Fundamentals of Accounting (10 Lectures)

Introduction and Meaning of Business, Types of Business Organizations, Basic Accounting Concepts, Meaning of Book-keeping and Accountancy, Branches of Accounting, Systems of Accounting, Meaning and Types of Account, Golden Rules of Accountancy

Unit II:- Maintaining Chart of Accounts (08 Lectures)

Introduction and Opening Screen of Tally, Company Creation, Company Features and Configuration, Meaning and Nature of Group, Predefined Groups in Tally, Ledger Creation, Groups Creation, Practical Assignments

Unit III:- Maintaining Inventory (06 Lectures)

Introduction to Inventory (Skill Academy Books Business), Inventory Masters in Tally, Creation of Stock Group, Creation of Units of Measure, Creation of Stock Item, Creation of Godown, Creation of Stock Category, Practical Assignments

Unit IV: - Recording Day to Day Transactions (10 Lectures)

Introduction, Source Documents or Vouchers Required for Accounting, Accounting Vouchers, Inventory Vouchers, Practical Assignments

Unit V:- Advanced Features in Tally Erp 9 (11 Lectures)

5.1 Maintaining Bill wise Details in Tally Erp 9

- 5.1.1 New Reference
- 5.1.2 Against Reference
- 5.1.3 Advance
- 5.1.4 On Account

5.2 Cost Centers

- 5.2.1 Cost Category
- 5.2.2 Cost Center
- 5.2.3 Creation of Cost Category
- 5.2.4 Creation of Cost Center

5.3 Practical Assignments

Reference:

- Ashok K Nadhani-Tally.ERP9-BPB Publication
- Er. Soumya Ranjan Behera- Tally ERP9 with GST-
- Shraddha Singh, Navneet Mehra- Comprehensive Computer Learning Tally
- Ashok K Nadhani-Mastering Tally ERP 9-BPB Publication
- Dr.S.K.Khillare, Kale N.B.– Tally – Self Study Publication Pune
- Dr. J. J. Ahirrao & Dr. P. N. Totala – I.T. & its Application in Business, Kailash Publication Aurnagabad



‘Skill Enhancement Course – III’ (SEC-III) (Any One)

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester Vth (CBCS Pattern)

SEC-III.5 Financial Literacy Skills

No. of lectures	45
End of Semester (University Exam)	25 Marks
Continuous Assessment (CA) Internal	25 Marks
Total	50 Marks
Total Credit	02

Objective:

To encourage the college students to obtain basic financial skills which are essential for their full participation in society and life time of well-being.

Utility: To know the financial aspects of business.

Prerequisite: Basics of Financial studies & risk factors.

Contents:

Unit I Money Matters and Budgeting

13

Money as medium of exchange and as medium of storage; Net-worth- difference between money and wealth, Assets and Liabilities, assets and income; liabilities and expenses, importance of financial goals in personal financial planning, S.M.A.R.T. goals, Sources of income, professional income and investment income - active income and passive income; regular and lump sum expenses, discretionary and non-discretionary expenses; Deficit and Surplus, saving and investing, What is Cash-flow Statement?-the structure, items, purpose, the different heads, the essence of Budget-Meaning, purpose and different heads, Opportunity Cost? Instant gratification and delayed gratification

Unit II Understanding insurance and risk management:

12

“pure risk” and “investment risks”, Ways to manage risk: Avoid, Reduce, Retain, Share & Transfer, spreading the risks and sharing of losses, insurance premium an expense, insurance products and terminology, Term plan -the pure insurance, Hybrids-combination of insurance and investment, Critical illness, General insurance: Vehicle insurance, Medical insurance, Disability insurance and Property insurance, differences in the features of various products, Know about functions and powers of IRDA, the insurance regulator in India

Unit III Understanding Investments:

10

The importance of Investment, diversification as a risk mitigation tool, Liquidity: definition, need and concept of Impact Cost, growth of money / concept of “returns”, Inflation- short term and long term impact of inflation on personal finances, real rate of returns, CPI, WPI, Time Value of Money, Interest- Simple Interest, Compound Interest, Annualized Interest and its calculations, Understanding the impact of different compounding frequencies, nominal interest and effective interest rate, the Rule of 72 and Rule of 144



Unit IV Introduction to Stocks and bonds:

10

Equity Stocks -face value, shares at a premium and at a discount, dividend, the market value of each share and how is it determined, Earnings per share (EPS), Price to Earnings Ratio (P/E ratio), Bonds and debentures-types of bonds / debentures: Issuers, Term to maturity, Interest rate -fixed or floating, Secured / unsecured, Convertible / non-convertible, Understand credit risk and credit rating,; functions and powers of Securities and Exchange Board of India- the securities market regulator in India; stock exchanges-their main functions and stock exchanges in India;

References:

1. <http://www.ncfeindia.org/NFLAT>
2. National Financial Literacy Assessment Test-Vidyabhartee Prakashan

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,
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B.Com.-III Year (Semester VI)

Choice Based Credit System (C.B.C.S)

SYLLABUS

W.e.f. 2018-19

Paper No.	Name of the Paper	Lecture/W week	Total Periods	Continuous Assessment (CA)	End of Semester Exam (ESE)	Total Marks	Total Credit
XXIX	Advanced Accounting-II	4	54	35	40	75	3
XXX	Management Accounting-II	4	54	35	40	75	3
XXXI	Auditing-II	4	54	35	40	75	3
Opt Any one Group as Discipline Specific Elective of the following							
Group A- Taxation							
XXXII A	Income Tax Law & Practice-II	4	54	35	40	75	3
XXXIIIA	Goods and Services Tax-II	4	54	35	40	75	3
XXXIVA	Training & Project Work	4	54	35	40	75	3
Group B- Management							
XXXII B	Human Resource Management-II	4	54	35	40	75	3
XXXIIIB	Marketing Management-II	4	54	35	40	75	3
XXXIVB	Training & Project Work	4	54	35	40	75	3
Group C- Banking & Insurance							
XXXII C	E-Banking & Accounting-II	4	54	35	40	75	3
XXXIIIC	E-Insurance & Accounting-II	4	54	35	40	75	3
XXXIVC	Training & Project Work	4	54	35	40	75	3
Group D- UGC Vocational Course Tax Procedure & Practice (Only for Approved College)							
XXXII D	Income Tax Procedure & Practice-II (TPP-XI)	4	54	35	40	75	3
XXXIII D	GST Procedure & Practice-II (TPP-XII)	4	54	35	40	75	3

XXXIV D	Training & Project Work	4	54	35	40	75	3
Group E- UGC Vocational Course Foreign Trade Procedure & Practice (Only for Approved College)							
XXXII E	Export Documentation (FTPP-XI)	4	54	35	40	75	3
XXXIII E	International Transportation (FTPP-XII)	4	54	35	40	75	3
XXXIV E	Training & Project Work	4	54	35	40	75	3
Group F- UGC Vocational Course Computer Application (Only for Approved College)							
XXXII F	Java Programming (CA-XI)	4	54	35	40	75	3
XXXIII F	VB.Net (CA-XII)	4	54	35	40	75	3
XXXIV F	Training & Project Work	4	54	35	40	75	3
Group G- UGC Vocational Course Banking & Insurance (Only for Approved College)							
XXXII G	Banking Laws and Practice in India (BI-XI)	4	54	35	40	75	3
XXXIII G	Career Avenues in Insurance-II (BI-XII)	4	54	35	40	75	3
XXXIV G	Training & Project Work	4	54	35	40	75	3
Opt Any one Subject as Generic Elective of the following							
GE-II.1	Indian Economy-II	4	54	35	40	75	3
GE-II.2	Rural Management-II	4	54	35	40	75	3
GE-II.3	Labour Laws and Industrial Law-II	4	54	35	40	75	3
GE-II.4	Travel & Tourism-II	4	54	35	40	75	3
GE-II.5	The Right to Information Act-2005 - II	4	54	35	40	75	3
Opt Any one Skill Enhancement Course – IV (SEC-IV)							
SEC-IV.1	Self-Employment-II	3	45	25	25	50	2
SEC-IV.2	Tax Consultancy	3	45	25	25	50	2
SEC-IV.3	Intellectual Property Right-II	3	45	25	25	50	2
SEC-IV.4	Accounting & Auditing Practices	3	45	25	25	50	2
SEC-IV.5	Mutual Fund Distribution	3	45	25	25	50	2

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester VIth (CBCS Pattern)

XXIX Advanced Accounting-II

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning objectives: The objective of the course is to equip the students with the ability to analysis interpret and use accounting information in managerial decision making and auditing.

Utility: Student can acquire knowledge of advance level of accounting for professional

Prerequisite: Basic knowledge of financial accounting

UNIT I:	Accounts of Electricity Company	No. Of Lectures: 11
	The Double Entry Accounting System – Meaning & Advantages. Preparation of Electricity Company Accounts	
UNIT II:	Departmental Accounts	11
	Meaning, Importance of Departmental Account, Preparation of Departmental Profit and Loss, Balance Sheet and General Profit & Loss Account (with Loading, internal transfer)	
UNIT III:	Packages Account	11
	Meaning and Importance, Preparation of Package Account.	
UNIT IV:	Account of Profession	11
	Meaning, Importance of Profession Account, Preparation of Profession Account Solicitors Account only	
UNIT V:	Insolvency Accounts	10
	Meaning, Importance, Procedures of Insolvency.	

Reference:

1. Advanced Accounting (S. N. Maheshwari)
2. Advanced Accounting Vol. 1, 2 (Mr. Hanif& A. Mukharjee, Tata McGraw Hill Publishing Company Ltd.)
3. Accountancy (H. R. Kotalwar) Discovery Publication, Latur
4. Advanced Accounting Vol. I (R.S.N. Pillani, Bhagwati& S. Uma- S. Chand Publication)
5. Advanced Accounting (C.A. Raj K Agrawal) : SahityaBhavanPublicaiton,Agra
6. Company Accounts & Auditing Practices (SangeetKedia's)
7. Corporate Accounting (C.A. Dr. P. C. Tulsian, C.A. Bharat Tulsian)
8. Advanced Accountancy (M. G. Patkar, PhadkePrakashan, Pune)

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester VIth (CBCS Pattern)

XXX Management Accounting-II

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning Objectives:- The Objectives of this paper is to equip the students with the ability to analysis, interpret and use accounting information in Management accounting information in managerial decision making. The student is expected to have a good working knowledge of the subject. This paper provides the students an understanding of the application of accounting techniques for management.

Utility: Students can take managerial decisions regarding finance of the business

Prerequisite: Basic knowledge of accounting and mathematics

UNIT I: Financial Statement Analysis

No. Of Lectures: 11

Meaning - Nature & Limitations of Financial Statement, Objective and Methods of Financial Statement Analysis, Comparative Financial Statement, Common Size Financial Statements & Trend Analysis.

UNIT II: Ratio Analysis

11

Meaning, Advantages and Limitations of Ratio Analysis, Classification of Ratios, Calculation of Ratios, Current Ratio, Liquid Ratio, Stock Turnover Ratio, Debtors Turnover Ratio, Credit Turnover Ratio, Operating Ratio, Gross Profit Ratio, Proprietary Ratio, Fixed Assets Turnover Ratio, Debt Equity Ratio, Return of Capital Employed Ration, Capital Grading Ration.

UNIT III: Working Capital Management

11

Concept, Significance, Nature and Factors determining requirement of Working Capital, Management of Working Capital, Working Capital Forecasting and Techniques of Forecasting Working Capital.

UNIT IV: Capital Budgeting

11

Meaning & Nature of Capital Budgeting, Need & Importance of Capital Budgeting, Capital Budgeting Process, Methods of Capital Budgeting or Evaluation of Investment Proposal, Traditional Methods, Time Adjusted Method or Discounted Method.

Unit V Responsibility Accounting

10

Meaning and Concept of Responsibility Accounting, Advantages and limitation, Problems on Responsibility Accounting.

Reference :

- Cost & Management Accounting by Ravi N.Kishor ,Publication Taxmonth
- Essential of Management Accounting by P.N.Reddy,Himalaya
- Advanced Management Accounting by Robert S Kailar,Holl
- Financial Of Management Accounting by S.R.Varshney,Wisdom
- Introduction Of Management Accounting by Charbs T Horngram, PHI Learnng
- Management Accounting by Jha&Naik, Himalaya Publication
- Cost & Management Accounting by D.K.Mattal,Galgotia
- Management Accounting by Khan &Jain,TataMegaw
- Management Accounting by R.P.Resstogi
- Management Accounting by I.M.Pandey, Vikas
- Management Accounting by Manmohan Goyal, Sahitya Bhavan Publication, Agra
- Management Accounting by R.K. Sharma & S.K. Gupta, Kalyan Publication, Ludhiyana.
- Management Accounting by Khan M.Y. & Jain R. K. Tata McGrow Hill, New Delhi.
- Management Accounting by N. Vinayak & I.B. Singh, Himalaya Publication House, Delhi
- Management Accounting by R.S.N. Pillai & V. Bhagvati, S.Chand Publication, Delhi
- Management Accounting by Dr. S.N. Mahaeshwari, Sultan Chand & Sons, Delhi.
- Management Accounting by Dr. H.W. Kulkarni, Dr. V.K. Bhosle, Dr. S.M. Kolhe, Aruna Prakashan, Latur.
- Management Accountitng by Dr. S.S. Agrawal & Dr. S.R.Agrawal Chinmay Prakashan Aurangabad



B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester VIth (CBCS Pattern)

XXXI Auditing-II

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning Objective:

The Objective of the course is to provide the candidates with sound Knowledge of the important provisions of the Audit and company law and their Applications in practices.

Utility: Regarding minute study to find out the fraud and errors in accounting

Prerequisite: Theoretical and Practical knowledge of accountancy

UNIT I: Checking Vouching and Audit Report

No. Of Lectures: 11

Meaning and Definition of Vouching, Objectives of Vouching, Test checking-Vouching of Cash Book, Verification and Valuation of Assets and Liabilities, Elements of Audit Report, Types of Audit Report -Qualified and Clean Audit Report, Audit Certificate.

UNIT II: Internal Audit

11

Meaning, Basic Principles of Establishing Internal Audit, Objectives, Evaluation of Internal Audit by Statutory Auditor, Usefulness of Internal Audit, Internal Audit Vs External Audit, Internal Checks Vs Internal Audit

UNIT III: The Company Audit Provisions

11

Provisions Relegating To Company Audit under Companies Act 2013.

UNIT IV: Audit of Banking Companies

11

Definition, Restrictions on Banking Company, Audit of Banking, NPA-meaning & Important points of Non-Performing Assets with reference to Bank Audit,

UNIT V: Standards on Auditing

10

SA-200, SA-230, SA-240, SA-299, SA -300, SA-320, SA-500, SA-580 SA 600SA-610 SA-620.

Reference Books:

1. Auditing and Assurance By CA Pankaj Garg. Taxman
2. Auditing and Assurance By CA Raj K. Agrawal. Study At Home.
3. Auditing Practices By Abhishek Mittal. Pooja Law Publication
4. Auditing and Assurance By Best Ward Publication
5. Auditing by Dr. Jitendra Ahirrao, Dr. Vasant Mahajan, Dr. Nandkumar Rathi, Chinmay Prakashan, Aurangabad

**‘Group A’****Taxation****B. Com. Third Year Syllabus (w.e.f. 2018-2019)****Semester VIth (CBCS Pattern)****XXXII (A) Income Tax Law & Practice-II**

No. of Lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) (Internal)	35 Marks
Total	75 Marks
Total Credit	03

Learning Objective: The Objective of the course is to provide the candidates with sound knowledge of the important provisions of the Income Tax law and their applications in solving problems on computation of Total Income and Tax Liability.

Utility: To get oneself acquainted with the direct taxes and individual income.

Prerequisite: one should possess the knowledge of basic terminologies in respect of Income Tax act and Computer ideologies.

Course Contents**Unit I: Assessment of Company** **11**

Computation of GTI and Total Income of company considering the deduction U/S 80 regarding company

Unit II: Set-off and Carry Forward of Losses: **11**

Sec: 70 – Set off Loss from one Source against Income from another Source under the Same Head of Income, Sec: 71 – Set Off Loss from One Head against Income of another Head, Sec: 71B – Carry Forward & Set off Losses from House Property, Sec: 72 – Carry Forward & Set Off of Losses of Business Losses, Sec: 73- Losses in Speculation Business, Sec: 74- Loss under the head Capital Gains, Simple problems on set off and carry forward of losses of an individual.

Unit III: Assessment of Individuals: **11**

Computation of GTI and Total Income of an individual considering the Deductions u/s 80C, 80D, 80DD and 80E only.

Unit IV: Computation of Tax Liability **11**

Tax Rates in respect of individuals, Computation of Tax Liability of an individual.

Unit V: Provisions concerning Advance tax. **10**

Advance Tax U/S 207, 208, 209, 210 & 211, Sec: 207 – Income Liable to Advance Tax, Sec: 208 – Liability of Advance Tax, Sec: 209 – Computation of Advance Tax, Sec: 210 – Payment of Advance Tax by Assessee on His Own Account, Sec: 211 – Due Dates of Payment of Advance Tax

Suggested Reading:

Dr H C Meharotra and Dr S P Goyal – Income Tax Law & Accounts: Sahitya Bhavan Publications. *Direct Taxes Law & Practice* by V.K. Singhania - *Taxman* • *Systematic Approach to Direct Tax* by Ahuja & Gupta - *Bharat Law House* • *Income Tax Ready Reckoner* by Dr .V.K. Singhania - *Taxman* • *Direct Tax Laws* by T.N. Manoharan - *Snow White*

‘Group A’

Taxation

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester VIth (CBCS Pattern)

XXXIII (A) Goods and Service Tax-II

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning Objective: The Objective of the course is to provide the candidates with sound Knowledge of the important provisions of the GST Act and their applications in practices.

Utility: To get oneself acquaint with the new indirect tax system.

Prerequisite: One should possess the knowledge of basic terminologies in respect of indirect taxes and Old taxes such as VAT, Service tax etc.

Unit I: Payment of Tax under GST Law

No of Lectures 11

Introduction, Relevant Definitions, Payment of Tax, Interest, Penalty and Other Amounts, Electronic Cash Ledger, Electronic Credit Ledger, Electronic Liability Register, Interest on Delayed Payment of Tax.

Unit II: Account and Records

11

Introduction, Relevant Definitions: Accounts and other Records, Who is Required to Maintain his Books of Account and At Which Place?, Accounts and Records Required to be Maintained, How the Accounts and Records will be Maintained?, Audit of Account, Period of Retention of Accounts, Electronic way Bill.

Unit III: Invoicing, Credit and Debit Notes

11

Invoicing, Amount of Tax to be indicated in Tax Invoice and other documents, Credit and debit Notes

Unit IV: Returns

11

Furnishing details of Outward Suppliers and Inward Suppliers, Returns, First Return, Claim of Input Tax Credit, Annual Return, Final return.

Unit V: Inspection and Search & Seizure:

10

Introduction, Power of Infection, Search and Seizure, Inspection of Goods in Movement,

Reference Books:

1. CA Raj K Agrawal Study AT Home.
2. Dr.Vinod K Singhania: Taxman publications.
3. T.N.Manoharan: Snow White.
4. www.icaai.ac.in



**‘Group B’
Management
B. Com. Third Year Syllabus (w.e.f. 2018-2019)
Semester VIth (CBCS Pattern)
XXXII (B) Human Resource Management-II**

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Course Objectives:-

To enrich the students with thorough knowledge and desired skills to manage Human resource in the field of commerce & Industry.

Utility: Regarding the major living aspect of business i.e. human resources, helps to know the recruitment and other basic needs.

Prerequisite: basic management terminologies and non-financial business activities.

Unit I: Employee Empowerment

Lectures - 11

Concept & Process of employee Empowerment, Essentials of effective empowerment, Barriers to empowerment, workers’ Participation in management (WPM) : meaning, Objectives & Importance of WPM, forms of WPM, Quality circles

Unit II: Human Resource Development (HRD)

Lectures-11

Concept & Functions of HRD, Objectives of HRD, HR orientation process, Training :- meaning, Importance & Need , objectives, Methods / Techniques of training.

Unit III: Career Planning & Development

Lectures - 11

Concept of career & career planning, Career Planning process, elements of career Development Programmes, suggestions for effective career Development, Succession planning :- Elements & Planning process, Directive principles of succession planning.

Unit IV: International Human Resource management

Lectures - 11

Concept & Needs of IHRM, stages of Internationalization of HR, Comparison of Domestic & International HRM, challenge before global companies, managing cultural Diversity.

Unit V: Emerging Issues & recent Techniques in Human Resource management

Lectures -10

Concept & Nature of the following:

- 1) Total Quality Management approach to HRM
- 2) HR Accounting & Auditing
- 3) Stress Management
- 4) HR Information system
- 5) HR outsourcing

Reference books :

Human Resource Management: L.M. Prasad ,Human Resource Management : K. Ashwathappa ,Emerging HRM : S.K. Bhatia,Personnel & HRM : A. M. Sharma,Human Resource Management : P. Subbarao, Human Resource Management – Dr. S.K.Khillare,N.B.Kale,V.P.Shelke,Aruna Publication Latur



**‘Group B’
Management
B. Com. Third Year Syllabus (w.e.f. 2018-2019)
Semester VIth (CBCS Pattern)
XXXIII (B) Marketing Management-II**

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning Objectives

Objective of this Course is to provide a sound understanding of the basic principles of Human Resource Management and their applications in the business & industry.

Utility: To aware oneself in respect of difference between sales and marketing.

Prerequisite: Social role of business and Environmental factors affecting the business.

Unit I: Marketing Research**11**

Meaning and Definitions, Objectives of Marketing Research, Process of Marketing Research, Importance and Types of Marketing Research.

Unit II: Market Segmentation**11**

Meaning and Definitions, Benefits of Market Segmentation, Bases of Market Segmentation, Process of Market Segmentation, Limitations of Market Segmentation.

Unit III: Consumer Behaviour and Consumer Relationship Management**11**

Meaning and Concept of Consumer Behaviour, Factors affecting the Consumer Behaviour, Behaviour Stages in Consumer Buying Decision Process, Meaning and Concept of Customer Relationship Management, Advantages of CRM.

Unit IV: Advertising & Salesmanship:**11**

Meaning and Concept of Advertising, Features of Advertising, Importance of Advertising, Advertisement and Sales, Salesmanship – Concept and Function of Salesman.

Unit V: Recent Trends in Marketing**10**

Rural Marketing – Concept, Features of Rural Marketing, Difficulties in Rural Marketing, Importance of Rural Marketing, Green Marketing and E-Marketing.

Suggested Readings:

- 1) Philip Kotler – Marketing Management (Prentice Hall of India, New Delhi)
- 2) Sherlekar, S.A. – Marketing Management (Himalaya Publication House, Mumbai)
- 3) Karunakaran, K – Marketing Management (Himalaya Publication House, Mumbai)
- 4) Dr. Prabhakar Deshmukh – Marketing Management (Vidya Prakashan, Nagpur)
- 5) Dr. S. V. Kadvekar – Marketing Management (Diamond Publication, Pune)
- 6) Dr. Mahesh Kulkarni, & Dr. Pramod Biyani – Marketing and Salesmanship (Nirali Prakashan, Pune)
- 7) Marketing Management – Dr. S.K.Khillare, Dr.S.L. Kundalwar, Aruna Publication Latur

‘Group C’
Banking & Insurance
B. Com. Third Year Syllabus (w.e.f. 2018-2019)
Semester VIth (CBCS Pattern)
XXXII (C) E-Banking & Accounting-II

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning Objectives

Objective of this Course is to provide a sound understanding of the basic principles of E-Banking & Accounting and their applications.

Utility: To know about the major service sector contributing banking sector together with accountancy.

Prerequisite: Online banking and basic E-terminologies.

UNIT I: Accounting systems & Provisions in Banking Companies **11**

Significant Features of Accounting Systems of Banking Companies Books required to be maintained by banks Income recognition, Classification of assets and advances, Provisions, Classification of investments Provisions of Banking Regulation Act- 1949 applicable to banking companies:- Business, Capital and Reserve, Reserve funds, Dividend, Cash reserves, Loans and advances, Unclaimed deposits, Accounts and auditing

UNIT II: Calculation of Interest and Annuities **11**

Calculation of Simple Interest & Compound Interest; Calculation of Equated Monthly Installments; Fixed and Floating Interest Rates; Calculation of Annuities, Interest Calculation using Products/Balances; Amortization of a Debt; Sinking Funds

UNIT III: Preparation of Final accounts and Reporting **11**

Disclosure Requirements of Banks and Additional Disclosures prescribed by RBI Disclosures required under BASEL norms. Preparation of Financial Statements of Banking Companies as per regulatory requirements

UNIT IV: International Monetary System and Foreign Exchange Market **11**

International Monetary System – Introduction to Exchange rate regime, The International Monetary Fund - Objectives and Funding Facilities, International Liquidity and Special Drawing Rights and Introduction to The European Monetary System

UNIT V: International Monetary System and Foreign Exchange Market **10**

Foreign Exchange Market - Major Participants in Spot market and Forward market, Exchange Rate Quotation, Determination of exchange rates in spot and forward market, Factors influencing exchange rates, Types of Foreign Exchange Rates and Interest rate

Recommended Books:

- Functions & Working of the RBI: Reserve bank of India Publications
- Financial sector Reforms & India’s Economic development: N.A. Majumdar
- Central banking & Economics Development: Vasant Desai
- Monetary Economics: S. B. Gupta
- Banking in India – S. Panandikar
- Banking: S.N. Maheshwari
- Report on Trends & Progress of Banking of India: Reserve Bank of India Publication.



- Annual Reports of Banks.
- Indian banking system- Dr. Rita Swami
- Indian banking system- Dr. B.R. Sangle, Dr. G.T. Sangle, Dr. Kayande Patil &

‘Group C’

Banking & Insurance

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester VIth (CBCS Pattern)

XXXIII (C) E-Insurance and Accounting-II

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning Objectives

Objective of this Course is to provide a sound understanding of the basic principles of E-Insurance & Accounting and their applications

Utility: Adding up with the insurance sector as a part of social phenomenon.

Prerequisite: “Insurance is the part of social safety and not more than that” this should be complied first

UNIT I: Life Insurance Business

No. Of Lectures: 11

Meaning of Life Assurance, Types of Life Insurance Policies, Life Insurance Premium, Insurance Claims.

UNIT II: Preparation of Final Account of Life Insurance Corporation Revenue Account

11

Profit & Loss Account and Balance Sheet in prescribed form. Practical Problem.

UNIT III: E- Insurance

11

Computer Accounting of Insurance co., Collection of Premium Online, Disclosures forming part of financial statements.

UNIT IV: Audit of Insurance Company

11

Statutory Audit of Insurance Company, Internal Audit of Insurance Company, Inspection by IRDA, Audit report of Insurance Company

UNIT V: Bancassurance

10

Bancassurance in a global perspective, Bancassurance in India, Bancassurance model, Guidelines for Bancassurance, future of Bancassurance

References

Michel J. Bullard- Insurance and Accounting

Financial Accounting for Insurance Professionals II Edition CPU Publication

J Galloway and Joseph M Galloway-Handbook of Accounting for Insurance Companies

‘Group D’
UGC Vocational Course Tax Procedure and Practice
B. Com. Third Year Syllabus (w.e.f. 2018-2019)
Semester VIth (CBCS Pattern)
XXXII (D) Income Tax Procedure and Practice-II (TPP-XI)

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning Objective:

The Objective of the course is to provide the candidates with sound knowledge of the important provisions of the Income Tax law and their applications in solving problems on computation of Total Income and Tax Liability.

Utility: To get oneself acquaint with the direct taxes and individual income.

Prerequisite: one should possess the knowledge of basic terminologies in respect of Income Tax act and Computer ideologies.

Unit I: Assessment of Firms **No. of Lectures: 11**

Computation of GTI and Total Income of Firm considering the Deductions u/s 80G & 80IB

Unit II: Assessment of Companies **11**

Computation of GTI and Total Income of a Companies considering the Deductions u/s 80 G and 80 IB

Unit III: Computation of Tax Liability **11**

Tax Rates in respect of Firms And Companies, Computation of Tax Liability of Firms and Companies.

Unit IV: Advance Tax **11**

Concept of Advance Tax, Corporate Assessee, Non corporate Assesse Computation of Advance Tax Liability

Unit V: Tax Deducted At Source **10**

Concept of TDS, TDS on Salary, TDS on Interest other than Securities, TDS on Rent TDS on Contractor.

Reference Books :

1. Dr H C Meharotra and Dr S P Goyal- Income Tax Law & Accounts: Sahitya Bhavan Publications.
2. Dr H C Meharotra and Dr S P Goyal- Income Tax Law & Practice :Sahitya Bhavan Publications

‘Group D’

UGC Vocational Course Tax Procedure and Practice

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester VIth (CBCS Pattern)

XXXIII (D) Goods and Service Tax Procedure and Practice-II (TPP-XII)

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning Objective: The Objective of the course is to provide the candidates with sound Knowledge of the important provisions of the GST Act and their applications in practices.

Utility: To get oneself acquaint with the new indirect tax system.

Prerequisite: One should possess the knowledge of basic terminologies in respect of indirect taxes and Old taxes such as VAT, Service tax etc. Knowledge of Packages in respect of taxes.

Unit I: Payment of Tax under Goods and Service Tax Law 11

Introduction, Relevant Definitions: Payment of Tax, Interest, Penalty and Other Amounts, Electronic Cash Ledger, Electronic Credit Ledger, Electronic Liability Register, Interest on Delayed Payment of Tax.

Unit II: Account and Records 11

Introduction, Accounts and other Records, Who is Required to Maintain his Books of Accounts and at which place?, Accounts and Records Required to be Maintained, Audit of Account, Period of Retention of Accounts, Electronic way Bill.

Unit III: Offence & Penalties under Goods and Service Tax 11

Introduction, Penalty for Certain Offences, Penalty for Failure to Furnish Information Return, Fine For Failure to Statistics, General Penalty, General disciplines Related to Penalty, Power to Impose Penalty in Certain cases, power to Waive Penalty or Fee or Both

Unit IV: Demand & Recovery 11

Introduction, Determination of Tax Not Paid/Short Paid/Erroneously Refunded / ITC Wrongly Availed/Utilized, Non- Payment/Short Payment etc..On Account of Reasons Other than Fraud, Issue of SCN, Time Limit to Issue SCN, Payment of Tax Before Issuance of SCN, Payment of Tax After Issuance of SCN, Adjudication Order, Limit Time for Passing Adjudication Order.

Unit V: Computation of Tax liability under Various Factor 10

Tax Computation for Exporter, Importer, ISD, E-commerce operator, RCM, etc

Reference Books:

1. CA Raj K Agrawal Study AT Home.
2. Dr.Vinod K Singhanian: Taxman publications.
3. T.N.Manoharan: Snow White.
4. www.icai.ac.in

‘Group E’
UGC Vocational Course Foreign Trade Procedure and Practice (FTPP)
B. Com. Third Year Syllabus (w.e.f. 2018-2019)
Semester VIth (CBCS Pattern)
XXXII (E) Export Documentation-(FTPP- XI)

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Objective of the paper;

To familiarize the students with the basic documents involved in foreign trade

Utility: Export vs. Import comparison and Balance of Payment.

Prerequisite: Basic Insurance terminologies specially general insurance plus geographical study of Countries.

UNIT I: Processing an export order 11

Registration of firms with authority, BIN number, PAN number, Obtaining IEC, RCMC, Excise clearance, Customs clearance, steps of entering into an export contract, Procedure of an export order.

UNIT II: Export documentation 11

Documents related to goods, shipment, payments, inspection, excisable goods and foreign exchange regulation, Certificate of Manufacturer, Bill of Lading Certificate of Origin, Commercial Invoice, Consular Invoice, Electronic Export Information (EEI)

UNIT III: Export incentives and schemes of government of India 11

Provisions of Foreign Trade policy 2015-20 and annual supplements to the policy, GSP and GSTP rules as per Foreign Trade policy.

UNIT IV: Export promotion measures 11

Export Promotion Council (EPC), Free Trade Zones (FTZs), Export processing zones (EPZs), special economic zone (SEZ), Export-Oriented Unit (EOU), Recent terms.

UNIT V: Career avenues in Foreign Trade 10

Export Business Development Manager, Head of International Sales and Marketing, Export Marketing Manager, International Business Consultant/ Foreign Trade Consultant, Manager Operations- Export, Associate Relationship Manager, Foreign Trade and Business Analyst, Trading Strategist, Foreign Exchange Specialist, Freight Forwarding Agent.

Reference books:

- 1) International Trade & Export Management by Francis Cherunilam, Himalaya Publishing House, Mumbai.
- 2) International Marketing Management by R.L.Varshney & B.Bhattacharyya, Sultan Chand & Sons, New Delhi.
- 3) International Business by P.Subba Rao, Himalaya Publishing House, Mumbai



- 4) Nabhi's Exporters Manual & Documentation, Nabhi Publication, New Delhi.
- 5) Nabhi's How to Export, Nabhi Publication, New Delhi.
- 6) Nabhi's How to Import, Nabhi Publication, New Delhi.
- 7) Export procedure by M.I.Mahajan

‘Group E’

UGC Vocational Course Foreign Trade Procedure and Practice

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester VIth (CBCS Pattern)

XXXIII (E) International Transportation-(FTPP- XII)

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Objective of the paper;

To familiarize the students with the basics of International Transportation

Utility: To get familiar with Domestic and overseas transportation and distribution cost plus storage of goods.

Prerequisite: Selling and Distribution cost and basics of single output system.

UNIT I : Ocean Transport-

11

Introduction- Ocean Transport, Significance of ocean Transport, features of ocean Transport, Development of commercial shipping, Operations and constraints of shipping, types of shipping, classification of shipping.

UNIT II : Multi-modalisation-

11

Introduction, Concept of Unitization, Concept of containerization,-need of containerization, dimensions of containerization ,advantages and disadvantages of containerization, types of containerization, Inter-modalism, multi-modalism ,Inland container depots, Container freight stations, Land bridging.

UNIT III: Indian Shipping-

11

Introduction, Importance of National Shipping, Advent of Shipping Industry in India, Growth and Perspective, Shipping in Five Year Plans, Basic Objectives, Age profile of Indian shipping, Stages of development of Indian shipping, Problems of Shipping Industry.

UNIT IV: Export Marketing -

11

Definition, Features of Export marketing, Scope of Export marketing, Role of Export, Difference between international marketing and Domestic marketing, Motives behind firms adopting export marketing.

UNIT V: Legal Aspects of Carriage of Goods

10

Introduction, carriage of goods by sea, charter party, Bill of lading, difference, Carriage of goods by air, carriage of goods by land and rail, carriage of goods by Multi model transport.

Reference books:

- 1) International Trade & Export Management by Francis Cherunilam, Himalaya Publishing House, Mumbai.
- 2) International Marketing Management by R.L.Varshney & B.Bhattacharyya, Sultan Chand & Sons, New Delhi.
- 3) International Business by P.Subba Rao, Himalaya Publishing House, Mumbai
- 4) Nabhi's Exporters Manual & Documentation, Nabhi Publication, New Delhi.
- 5) Nabhi's How to Export, Nabhi Publication, New Delhi.
- 6) Nabhi's How to Import, Nabhi Publication, New Delhi.
- 7) Export procedure by M.I.Mahajan

**‘Group F’****UGC Vocational Course Computer Application****B. Com. Third Year Syllabus (w.e.f. 2018-2019)****Semester VIth (CBCS Pattern)****XXXII (F) Java Programming-(CA- XI)**

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning Objectives: Knowledge of object oriented paradigm in java programming language., Have the ability to write a computer program to solve specified problem., To solve the business problem & determine suitable logic for solving the problem. To understand principles of inheritance, packages & interface.

Utility: To acquire knowledge regarding preparation of small scale business softwares.

Prerequisite: Basics of computer.

UNIT I: Introduction to Java**11 Lect.**

History of Java, Java Feature, Java Programming structure, Data Types, Variables, Constant, Operators, Simple Java Programming.

UNIT II: Decision Making & Looping Statement**11 Lect.**

Simple if statement, If... else statement, Nested if... else statement, Switch Statement, While Loop, for...Loop, do... While Loop

UNIT III: Array, String**11 Lect.**

What is array, Types of array, One dimensional array, Two dimensional array, What is string, String methods, Length(), to Lower Case(), to Upper Case(), replace(), char At(), substring(), & others.

UNIT IV: Classes & Object**11 Lect.**

Defining a class, Methods declaration, creating objects, Accessing class members, Constructor, Static members, Inheritance, Types of Inheritance, Interface, Final Variable & Final Class

UNIT V: Applet & Packages**10 Lect.**

Introduction, Applet life cycle, Applet tag, preparing to write applet, Building applet code Package, Simple package creation.

References

- Programming with JAVA a Primer by E. Balguru swamy TATA McGraw Hill
- The Complete Reference JAVA2 by H. Schildt

‘Group F’

UGC Vocational Course Computer Application

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester VIth (CBCS Pattern)

XXXIII (F) VB.Net-(CA-XII)

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Objectives of Visual Basic.Net

- Design/develop programs with GUI interfaces
- Code programs and develop interface using Visual Basic .Net
- Perform tests, resolve defects and revise existing code
- To develop object oriented concept.

Utility: To acquire knowledge regarding preparation of small scale business softwares.

Prerequisite: Basics of computer.

UNIT I: Introduction **11 Lect.**

Introduction, Installation Steps of VB.NET, IDE , Creating Simple Computer Application

UNIT II: Net Framework **11 Lect.**

CLR, Variables, Constant, Operators, Data types

UNIT III: Control Statements & Looping Statement **11 Lect.**

If statement, If then else statement, Nested if...then else statement, what is loop, Types of loop, For... next, Do...loop, While...end while

UNIT IV: Dialog boxes **11 Lect.**

The Message dialog box, The open dialog box, The save dialog box, The font dialog box, The color dialog box

UNIT V: Creating Menus **10 lect.**

Creating menus, Context menus

Reference Book

- 1) Beginning VB.Net 2003/2008, Willis
- 2) VB Mastering
- 3) VB Practical



‘Group G’

UGC Vocational Course Banking and Insurance

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester VIth (CBCS Pattern)

XXXII (G) Banking Laws and Practices in India-(BI-XI)

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning Objective:

To acquaint the student to develop an understanding of the legal Framework of capital and money market in India and to familiar with the different agencies of credit rating and settlement.

Utility: Acquiring Indian financial system as a whole.

Prerequisite: Market and electronic modes of transacting.

Unit I: FEMA 1999

Lectures 14

Objectives and background of the Act, Adjudicating authority, Regulation and management of Foreign Exchange, Dealing and holding of foreign exchange, current and capital A/c transactions, Export of goods & services, realization, repatriation and exemption of foreign exchange, contravention & penalties, Adjudication & Appeals.

Unit II: Securities and Exchange Board of India

Lectures 10

Structure of the SEBI, Powers and functions of the board, Rules Regarding global depositories receipts, Rules regarding prospectus and allotment of securities, Prohibition of Insider trading regulation 2015, foreign portfolio Investors regulations 2014

Unit III: Working of BSE and NSE

Lectures 10

Execution of Transactions: Intra-day and deliver, Role of Custodian banks, role of brokers, settlement of transaction, commodity and equity market: overview

Unit IV: Credit Rating Agencies

Lectures 10

Functioning, Objectives and Importance of the following agencies; ICRA, CRISIL, CARE, ONICRA, FITCH

Unit V: Settlement Agencies in stock Market

Lectures 10

Functioning, Objectives and Importance of the following agencies; NSCCL, NSDL, CDSL

Reference Books:

Indian Economy - Ashwini Mahajan and Gaurav Datt, S. Chand and Company,

<https://rbidocs.rbi.org.in/rdocs/Publications/PDFs/0FLTP577BF4E172064685A26A73A6BC9210EC.PDF>

Report on Trend and Progress of Banking in India 2014-15, RBI

Internet Banking in India – Guidelines

<http://rbidocs.rbi.org.in/rdocs/notification/PDFs/21569.pdf> <https://www.sebi.gov.in>



'Group G'

UGC Vocational Course Banking and Insurance

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester VIth (CBCS Pattern)

XXXIII (G) Career Avenues in Insurance-(BI-XII)

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning objective

To acquaint the student with the development of the Insurance industry and career opportunities available in the same.

Utility: To know about product designing and demand in the market.

Prerequisite: Marketing strategies and personality development.

Unit I: Financial Aspects in Insurance Companies

Lectures 14

Financial objectives of an Insurance company, Responsibilities of Financial managers, Planning Financial Goals and strategy, Measuring the performance of an insurance company, asset liability management (ALM), Ratio analysis in insurance companies, Risk return trade off.

Unit II: Reinsurance

Lectures 10

Introduction to reinsurance, Role of the insurance, Techniques of Re-Insurance, nature of Reinsurance risks, Reinsurance in Indian perspective, Global Reinsurance market insurance trading.

Unit III: Information Technologies in Insurance-I

Lectures 10

The need for information technology, Technologies for insurance, IT application in functional areas, insurance and electronic commerce, E-insurance, Information Technology and LIC, IT Departments in an insurance company.

Unit IV: Information Technologies in insurance-II

Lectures 10

Insurance and electronic commerce, E-Insurance, Information Technology and LIC, It departments in an Insurance company.

Unit V: Risk management in insurance companies

Lectures 10

Introduction, Risk management Elements, Risks in providing insurance services, insurance risk management system, management of systematic risk, CAT bonds.

Reference Books:

- 1] Insurance and Risk management, Dr. P.K. Gupta, Himalaya publishing House.
- 2] Insurance- Principles and practices – M.N. Mishra.

Generic Elective (Any one)

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester VIth (CBCS Pattern)

GE-II.1 Indian Economy-II

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Objective

To acquaint the student with the development of knowledge about Indian Economy and various system of control the Economic crises in Indian Economy.

Utility: To be familiar with the Indian Economic system.

Prerequisite: Basics of Business Economics.

Unit I: Objectives and Strategy of Economic Planning **No. Of Lectures: 11**

Objectives of Economic Planning in India, Mixed Economy and Economic Planning, Models of Economic Development-Nehru Vs Gandhi, LPG Model of Development, PURA-A Gandhian Approach to Development.

Unit II: Industrial Policy and Economic Development **11**

Key Features of Industrial Policy-1956, 1977, 1980, 1991 & Onwards.

Unit III: Public Sector and Disinvestment Policy **11**

Role of the Public Sector in India, Shortcomings of Public Sector, Rational of Disinvestment, Emergence of Disinvestment Policy, New Directions of Policy on the Public Sector.

Unit IV: Privatisation and Globalization of Indian Economy **11**

Comparison of the Public Sector and Private Sector, Economic Reforms since 1991, Privatization-The Alternative Models, Globalization and its Impact on Indian Economy.

Unit V: The Parallel Economy **10**

Meaning of Parallel Economy, Impact of Black Money, Incomes on the Economic and Social System, Factors Responsible for Generation of Black Money, Evaluation of Policy Package to Control Parallel Economy

Reference Books

3. Indian Economy – by Misra Puri
4. Indian Economy- by Datt Ruddar, KPM Sundharam

Generic Elective (Any one)
B. Com. Third Year Syllabus (w.e.f. 2018-2019)
Semester VIth (CBCS Pattern)
GE-II.2 Rural Management-II

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Objective

To adequate the basic knowledge about Indian rural structure and the various Institution regarding to rural development, politics in the rural Institutions.

Utility: To get the knowledge in respect of Rural areas and other relevant things.

Prerequisite: Basics of Management and rural study of India.

Unit I: Strategic Rural Management

No. Of Lectures: 11

Concept & Nature of Strategy and Strategic Decisions; Context and Practices of Strategic Management.

Unit II: Strategic Development

11

Methods of Strategic Development, Strategy Implementation, Strategic Analysis and Evaluation.

Unit III: Rural Project management

11

Concept of Rural Project Management, Project Designing, Participatory Project Planning.

Unit IV: Skills for Planning Development

11

Framework and Steps for designing public communication campaign for development.

Unit V: Recent trends in agriculture growth in India

10

Inter-regional variations in growth of output and productivity, Strategy of agricultural development and technological progress.

Reference Books:

Ambedkar, J.B. (1992). *Communication and Rural Development*, Mittal Publications, New Delhi.

Austin Vincent. (2000). *Rural Project Management*. Bats ford Academic and Educational Ltd., London.

Cleand David I. (1988). *System Analysis and Project Management*. McGraw- Hill Publisher, New Delhi

Goel B.B. (1987). *Project Management – A Development Perspective*. Deep & Deep, New Delhi.

Maylor Harvey. (2000). *Project management*. Pitman Publishing: London.

Nair B.M. (1985). *Project Management – Scheduling and Monitoring PERT/CPM*. VanSahibabad.

Ranjit Singh. (1993). *Communication Technology for Rural Development*. B. R. Publishing Corporation, Delhi.

Generic Elective (Any one)

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester VIth (CBCS Pattern)

GE-II.3 Labour Laws and Industrial Laws-II

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning Objective: The objective of the course is to provide the candidates with sound Knowledge of the important provisions of the Labour laws and Industrial laws and their applications in practice.

Utility: To introduce and apply laws regarding business and implement them in the business.

Prerequisite: Basics of Law and fundamental acts.

UNIT I: Payment of Wages Act, 1936 11

Introduction, Meaning of Industrial and Other Establishments, Timely Payment of Wages (Sec.4, 5, &6)

UNIT II: Child & Adolescent Labour (Prohibition and Regulation) Act, 1986 11

Introduction, Prohibition of Employment of Children in any Occupation or Process (Sec.3), Maintenance of Register Sec.11, Penalty (Sec.14)

UNIT III: Factories Act, 1948 11

Introduction Meaning of Factory, Manufacturing Process, Definition of Worker (Sec 2(I)), Meaning of Occupier of Factory, Facilities And Conveniences, Welfare Measures, Working Hour, Overtime Wages, Leave, Employment of Women, Adult, Young Person, Display on Notice Board, Punishment To Welfare Officer,

UNIT IV: The Industrial Employment (Standing Orders) Act, 1946 11

Introduction, Meaning of Standing Orders, Applicability, Approval of Standing Orders

UNIT V: Industrial Disputes Act, 1947 10

Introduction, Meaning of Industry, Meaning of Industrial Disputes, Adjudication of Disputes, Arbitration And Adjudication, Meaning of Award, Settlement, Lay –Off, Retrenchment, Strike, Lock-Out. Distinction Between Lay –Off and Lock-Out.

References:

- 1) Industrial , labour & General law - Sangeet kedia's
- 2) Labour & Industrial law - P. K. Padhi, PHI Learning Pvt. Ltd.
- 3) Labour Laws – Ajit Prakashan's
- 4) Labour & Industrial laws – Ravi Shinde, Asian law House
- 5) Industrial & labour law - CA Shivangi Agrawal, Study At Home
- 6) Labour & Industrial Law - Mishra and Puri.

Generic Elective (Any one)

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester VIth (CBCS Pattern)

GE-II.4 Travel and Tourism-II

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Learning objectives: A Study of Travel agents & Tour guide and its application.

Utility: Familiarized with the concepts of natural beauties and gifts to the countries.

Prerequisite: Natural heritage of India.

Unit I: Travel Agency

No. Of Lectures: 11

Travel Agents, Tour operators, Function of a travel agent – Travel information, Ticketing, Insurance, Information on destination, package tour, Tours and excursion Travel agency commission How to set up a travel agency.

Unit II: Guiding Concept

11

Meaning, Concepts & Types of Guides: Conceptual meaning of Tourist Guide, duties and responsibilities. How guides are appointed in tour.

Unit III: Responsibilities of Guides

11

Preparation of a tour: Review of itinerary, Participant list, accuracy, timings and practicality, Identifying the group or individual traveller's special needs. Checking Vehicle, Locating Vehicle and contacting driver; standard of dress and personal grooming; Greeting participants and introducing self; Leading the participant: Skills in leading the group, General instruction to Participants at monuments.

Unit IV: Personality Developments of Travel agent, Tour operator, Guide:

11

Introduction: Meaning of Personality, Personality Factors- external, internal. Effective or winning personality, developing a selling personality.

Unit V: Recent Trends in Tourism Business

10

Communication skills Personality grooming, physical fitness, dressing sense, formal and informal clothing, behavior with male and female clients, behavior in office.

Reference Book:

- 1) Tourism development by A. K. Bhatia
- 2) Successful Tourism management by Pran Math Seth.



‘Generic Elective’ (Any One)

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester VIth (CBCS Pattern)

GE-II.5 The Right to Information Act-2005-II

No. of lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessment (CA) Internal	35 Marks
Total	75 Marks
Total Credit	03

Objective: To develop the RTI Knowledge and its application in different departments of state and central Govt. for transparent Administration.

Utility: To know ones basic rights.

Prerequisite: Basics of laws and Indian act.

Unit I: Process of Information Collection

Lectures:11

Functions of Information Officer, Process of Information Collection, First Application – Format, First Appeal – Format – Section. 19 (1), Second Appeal Section 19 (3) Fess Structure and Time Limits

Unit II: The Central Information Commission

11

Constitution of Central Information Commission, Term of Office and Conditions of Service, Removal of Chief Information Commissioner or Information Commissioner

Unit III: The State Information Commission

11

Constitution of State Information Commission, Term of Office and Conditions of Service Removal of State Chief Commissioner or State Information Commissioner

Unit IV: Powers and Function of the Information Commissions

11

Powers and Functions of Information Commissions, Appeal and Penalties, Current Issues and Amendment in RTI, Successive Stories of RTI, Reforms in RTI

Unit V: Right to Information Act, 2005

10

Basic terms in Right to Information Act 2005, Provisions regarding Information Collection, Procedure of information collection, various information officers

Reference Book

- Right to Information Act, 2005 Anna Hazare, Ralegansiddhi Publication
- Right to Information Act. 2005



- Pradhod Kochare 10th Editio – 2015, Shekhar Gaikwad, Yeshoda Publication, Pune.
- Right to Information Act – 2005, Dr. Balaji Kompalwar, Suryamudra Prakashan, Nanded 2017
- Right to Information Act- 2005, Mr. Ashok Sabbon, New Stethoscope Prokoshan, Nagar 2008
- The Right to Information Act, 2005, Diglot Edition, Sunil Sochdeva, Rajasthan Low House, Jodhpur- Rajasthan
- Right to Information Act and Good governance, Prof. Anand Paliwal
- Dr. Krishnakishor Trivedi , Himanshu Publication Ed. 2017
- Understanding Basics of RTI Act, Shailesh Gandhi- Moneylife Foundation.
- The Right to Information Act, P.K. Das, Universal Low Publishing
- The Right to Information Act. , Dr.S.S. Jadhav, Nanded
- Pailu Mahiteechya Adhikarache, Vijay kumar 2012, Prajakta Prakashn Pune.

Skill Enhancement Course – IV (SEC-IV) (Opt Any One)

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester VIth (CBCS Pattern)

SEC-IV.1 Self Employment Skill-II

No. of lectures	45
End of Semester (University Exam)	25 Marks
Continuous Assessment (CA) Internal	25Marks
Total	50 Marks
Total Credit	02

Objective: To develop and adopt the various skills in the students for develop their career and take the self-employment skills.

Utility: “self-employment is best employment” to know the advantages of it.

Prerequisite: Employment opportunities and other relevant aspects.

UNIT I: Interpersonal Skill Development

No. Of Lectures: 11

Positive Relationship, Positive Attitudes, Empathise : comprehend other opinions points of views, and face them with understanding, Mutuality, Trust, Emotional Bonding, Handling Situations (Interview)

UNIT II: Identification of Business Opportunity

11

Environmental Scanning for identification and selection of business opportunity, Divergent Thinking Mode: Meaning and Objectives –Tools and Techniques, Convergent Thinking Mode: Meaning and objectives -Tools and Techniques.

UNIT III: Financial Assistance for Small Enterprise

12

Non-Institutional : own Fund –Family and Friends, Institutional: (a) Bank Loans –Co-operative Banks-Nationalized Bank – Scheduled Banks, (b) Angel Funding (c) Venture Funding (d) Self-employment Schemes of Government, (e) Government Financial Institutions : Khadi and Village Industries Board (KVIB) –Micro, Small and Medium Enterprises (MSME), Rajeev Gandhi Udyami Mitra Yojana (RUGMY), District Industries Centre (DIC), (f) Prime Minister Employment Generation Programme (PMEGP), (g) For urban –Seed Capital Schemes.

UNIT IV: Field Studies

11

Study of the organizations engaged in self-employment activities, Study of the Business Enterprises of the self-employed persons

Reference Books:

1. Entrepreneurship Development –New Venture Creations: By Taneja Satish and Gupta S.L.
2. Handbook for New Entrepreneurs Entrepreneurship Development: by Jain P.C.
3. Entrepreneurial Development: By Gupta C.B. & Srinivas.
4. Development of Soft Skills: By Menna K. and V. Ayothi
5. You Can Win: Shiv Khera



Skill Enhancement Course – IV (SEC-IV) (Opt Any One)

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester VIth (CBCS Pattern)

SEC-IV.2 Tax Consultancy

No. of lectures	45
End of Semester (University Exam)	25 Marks
Continuous Assessment (CA) Internal	25 Marks
Total	50 Marks
Total Credit	02

Learning Objectives:

To develop the skill among the students for tax consultancy practices.

Utility: To get oneself acquaint with the tax system.

Prerequisite: One should possess the knowledge of basic terminologies in respect of indirect taxes & direct taxes and Old taxes such as VAT, Service tax etc.

UNIT I:

No. of Lectures: 12

Skill of filing the Income Tax Returns for Salaried Persons

UNIT II:

11

Skill of filing the Income Tax Returns for Company

UNIT III:

11

Skill of filing the Income Tax Returns for Firms

UNIT IV:

11

Skill of filing the GST Returns for Retailers

Reference Books

- Dr. H.C. Mehrotra & Dr. S.P. Goyal-Income Tax Law and Accounts-Sahitya Bhavan Publication.
- Dr. Vinod K. Singhaniya-Taxman Publication.
- www.icaai.ac.in

Skill Enhancement Course – IV (SEC-IV) (Opt Any One)

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester VIth (CBCS Pattern)

SEC-IV.3 Intellectual Property Rights -II

No. of lectures	45
End of Semester (University Exam)	25 Marks
Continuous Assessment (CA) Internal	25 Marks
Total	50 Marks
Total Credit	02

Learning Objectives :

To develop the knowledge about intellectual property right and patent rights in the students in various business and professions

Utility: To get the future aspect of IPR and research.

Prerequisite: Basics of Research and other legal things.

UNIT I: Trademarks

No. Of Lectures: 12

The rationale of protection of trademark as (a) an aspect of commercial and (b) of consumer rights, Definition and concept of Trademarks, Different kinds of marks (brand names, logos, signatures, symbols, well known marks, certification marks and service marks), Non Registrable Trademarks, Procedure for Registration of Trademarks, Assignment/Transmission / Licensing of Trademarks

UNIT II: Copyrights

13

Nature of Copyright, Works in which Copyrights subsist, Author & Ownership of Copyright Rights Conferred by Copyright, Assignment, Transmission, Licensing of Copyrights Copyright pertaining to Software/Internet and other Digital media

UNIT III: Industrial Designs

10

What is a Registrable Design, What is not a Design, Novelty & Originality, Procedure for Registration of Designs, Copyright under Design

UNIT IV: Geographical Indications

10

Meaning and Nature, Who are entitled for registration ,Conditions & Procedure for Registration, Offences and Penalties

List of Recommended Books and References:

- Aswani Kumar Bansal : Law of Trademarks in India
- B L Wadehra : Law Relating to Patents, Trademarks, Copyright, Designs and Geographical Indications.
- G.V.G Krishnamurthy : The Law of Trademarks, Copyright, Patents and Design.
- Satyawrat Ponkse : The Management of Intellectual Property.
- S K Roy Chaudhary & H K Saharay : The Law of Trademarks, Copyright, Patents and Design.Legal Aspects of Technology Transfer: A Conspectus
- Office of the Controller General of Patents, Designs & Trade (CGPDTM) : Manual of Geographical Indications Practice and Procedure
- Office of the Controller General of Patents, Designs & Trade (CGPDTM) : Manual of Patent Office Practice and Procedure Office of the Controller General of Patents, Designs & Trade (CGPDTM) : Manual of Designs Practice and Procedure
- Office of the Controller General of Patents, Designs & Trade (CGPDTM) : Revised Draft Manual of Trademarks Practice and Procedure
- Office of the Controller General of Patents, Designs & Trade (CGPDTM) : Trade Marks Agents



Skill Enhancement Course – IV (SEC-IV) (Opt Any One)

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester VIth (CBCS Pattern)

SEC-IV.4 Accounting & Auditing Practices

No. of lectures	45
End of Semester (University Exam)	25 Marks
Continuous Assessment (CA) Internal	25 Marks
Total	50 Marks
Total Credit	02

Learning Objective:

The objective of this course is to develop the skill of Accounting and Auditing Practices among the students.

Utility: To know the advanced packages and time saving.

Prerequisite: ideologies of computer and accounting knowledge.

Unit I Accounts of Non-trading concern.

No. Of Lectures: 12

Maintaining Receipts and Payments Accounts and Final accounts of Non-trading concern.

Unit II Accounts of Retail shop keepers

11

Maintaining Cash Book and Personal Accounts of Retail shop keepers.

Unit III Auditing standards

11

Maintaining Final Accounts of the Company considering the provisions of Auditing standards

Unit IV Auditing procedure

11

Auditing procedure: Vouching, verification of Assets and Liabilities, Standards on Auditing and preparation of Audit Reports.

References:

1. Advanced Accounting (C.A. Raj K Agrawal) : SahityaBhavanPublicaiton,Agra
2. Company Accounts & Auditing Practices (SangeetKedia's)
3. Corporate Accounting (C.A. Dr. P. C. Tulsian, C.A. Bharat Tulsian)
4. Advanced Accountancy (M. G. Patkar, PhadkePrakashan, Pune)
5. Auditing and Assurance By CA Pankaj Garg. Taxman
6. 2. Auditing and Assurance By CA Raj K. Agrawal. Study At Home.
7. 3. Auditing Practices By Abhishek Mittal. Pooja Law Publication



Skill Enhancement Course – IV (SEC-IV) (Opt Any One)

B. Com. Third Year Syllabus (w.e.f. 2018-2019)

Semester VIth (CBCS Pattern)

SEC-IV.5 Mutual Fund Distribution

No. of lectures	45
End of Semester (University Exam)	25 Marks
Continuous Assessment (CA) Internal	25 Marks
Total	50 Marks
Total Credit	02

Learning Objectives:

1. To understand the basics of mutual funds and the role of Mutual fund distributor
2. To prepare the students for the NISM Mutual Fund Distributors Certification Examination

Utility: To know the financial aspects of business.

Prerequisite: Basics of Financial studies & risk factors.

UNIT I : Concept and Role of a Mutual Fund: 12

Concept, History, Functions, Advantages and limitations of a mutual fund, Investment objectives, Assets under management (AUM), Fund running expenses, Net asset value (NAV), Closed end funds and open ended funds, Categorization of funds by: investment objective, investing horizon, asset class. International funds, Fund of Funds, Exchange Traded Funds (ETF)

UNIT II: Fund Structure, Constituents, Legal and Regulatory Environment: 13

Structure of mutual funds in India and related regulations, Role of the sponsor, trustee and Asset Management Company (AMC) and related regulations, Role of regulators in India, Role and functions of SEBI in regulating mutual funds, Self regulatory organizations, Role and functions of AMFI, AMFI Code of Ethics, Investment restrictions and related regulations, Investor rights and obligations

UNIT III : Offer Document: 10

Regulations with respect to drafting and filing of an Offer Document for NFO, Process of NFO and steps involved in marketing an NFO, Objectives of information disclosure in an offer document, Statement of Additional Information (SAI) and related regulations, Scheme Information Document (SID) and related regulations, Key Information Memorandum (KIM) and related regulations

UNIT IV : Fund Distribution and Sales Practices: 10

Types of investors and eligibility, Distribution channels for mutual funds, Pre-requisites to become a mutual fund distributor, Key elements of agreement between distributor and a mutual fund, Sales practices and commission structure, Types of commissions and transaction charges, AMFI Code of Conduct, Process for KYD

References:

Mutual Fund Distributors-National Institute of Securities Markets (NISM), Taxman Publications Private Ltd, Mumbai.



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड— ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

Established on 17th September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



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वाणिज्य विद्याशाखेंतर्गत सर्व संलग्नित
वाणिज्य महाविद्यालयंतील **B.Com. - II**
Year (Semester III & IV) विषयाचा
C.B.C.S अभ्यासक्रम शैक्षणिक वर्ष
२०१७-१८ पासून लागू करण्याबाबत.

परिपत्रक

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ०३ मे २०१७ रोजी संपन्न झालेल्या ३८व्या मा. विद्या परिषद बैठकीतील विषय क्र.१२३/३८-२०१७ च्या ठरावानुसार वाणिज्य विद्याशाखेंतर्गत सर्व संलग्नित वाणिज्य महाविद्यालये, प्रस्तुत विद्यापीठ, येथे खालील अभ्यासक्रम शैक्षणिक वर्ष २०१७-१८ पासून लागू करण्यात येत आहे.

1. B.Com. - II Year (Semester III & IV) (C.B.C.S)

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,
विष्णुपुरी, नांदेड — ४३१ ६०६.
जा.क्र.: शैक्षणिक-०१/परिपत्रक/वाणिज्य/
२०१६-१७/२३
दिनांक : ०५.०६.२०१७.



स्वा/-
उपकुलसचिव
शैक्षणिक (१-अभ्यासमंडळ) विभाग

प्रत : माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित वाणिज्य महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, यू.जी.सी. कक्ष, प्रस्तुत विद्यापीठ.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED,

Vishnupuri, Nanded- 431 606

B.Com.-II Year (Semester III)

Choice Based Credit System (C.B.C.S)

SYLLABUS

W.e.f. 2017-18

Paper No.	Name of the Paper	Lecture / Week	Total Period	Continuous Assessment (CA)	End of Semester Exam ESE	Total Marks	Total Credit
CC XI	New Trends Corporate Accounting	04	54	35	40	75	3
CC XII	Corporate Law	04	54	35	40	75	3
CCXIII	Principles of Business Management and Practice	04	54	35	40	75	3
CCXIV	Cost Accounting - I	04	54	35	40	75	3
CCXV	Banking and Finance	04	54	35	40	75	3
CCXVI	Income Tax - I	04	54	35	40	75	3
SEC I	<u>A-I: Business Ethics</u>	1					
	<u>A-II: E - Business Marketing</u>	03	45	25	25	50	2
	<u>AllI: Business Environment</u>						
	<u>A-IV : E- Commerce</u>						
							20

SEC Should be Evaluated of Annually.

B.Com Second Year Syllabus (w.e.f.2017-18)

Semester III (CBCS Patterns)

New Trends in Corporate Accounting

(CC XI)

NO. of Lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessments (CA) (Internal)	35 Marks
Total	75 Marks
Total Credits	03

Objective:

To understand knowledge of new trends in corporate accounting issue of share and redemption share

Chapter 1

Recent Concepts in Corporate Accounting

(No of Lecture 08)

Introduction to corporate Account , online Banking, E-transaction, D-Mat Account, Debit Card, Credit Card, Swipe Machine, ATM

Chapter 2

Issues of Shares

(No of Lecture 14)

Meaning and procedure of issue, Forfeiture and reissue of Equity Shares, Practical Problems on Accounting Entries of Issue, Pro-rata allotment of Shares

Chapter 3

Redemption of Preference Shares

(No of Lecture 10)

Meaning and Procedure of redemption of preference shares, Types of preference shares, Redemption out of Fresh issue of Equity Shares, Redemption out of revenue Profit of Company, Practical Problems on accounting entries of redemption of preference shares and balance sheet after redemptions of preference shares

Chapter 4

Company Final Accounts

(No of Lecture 14)

Preparation of profit and loss account, profit and loss appropriation, account and balance sheet in prescribed forms

Chapter 5

Profit Prior to in Corporation

(No of Lecture 08)

Meaning, allocation of expenses and incomes between pre and post period, finding profit or loss

Recommended Book:

- 1) Practical Problem in Advanced Accountancy :S.P Jain and K.L Narang
- 2) Advanced Accounting : J.R. Batliboi
- 3) Advanced Accountancy : R.L.Gupta, M, Radhaswami
- 4) A New Approach To Accountancy – H.R. Kotalwar, Discovery Publishers

B.Com. Second Year Syllabus (w.e.f. 2017-2018)

Semester III (CBCS Patterns)

Corporate Law

(CC XII)

No. of Lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessments (CA) (Internal)	35 Marks
Total	75 Marks
Total Credit	03

Objectives:

To acquire knowledge and develop understanding of the necessary framework of companies with reference to various provisions or company act-2013

Chapter 1

Introduction

(No of Lecture 10)

- Historical Developments of Concepts of Corporate Law in India;
- Company Definition, meaning, nature and its Characteristics;
- Types of Companies: Private Company, Public Company, Foreign Company, Government Company, One Man Company

Chapter 2

Incorporation

(No of Lecture 10)

- Promoters: Meaning, Position, Duties, Rights, Responsibilities and Liabilities
- Memorandum of Association and its Alteration
- Articles of Association its Alteration
- Prospectus – Definition, Abridged Prospectus, Misrepresentations and Penalties

Chapter 3

Financial Structure I (Concept of Capital)

(No of Lecture 12)

- Equity Shares with Differential Rights
- Issue of Shares at Par, Premium and Discount
- Forfeiture and Surrender of Shares
- Bonus Issues, Right Issues, Issues of Sweat Equity Shares, Employees Stock Option Scheme

Chapter 4
Financial Structure II (Debt Capital)

(No of Lecture 12)

- Debenture, Stock
- Bonds, Recent Trends and Dynamics of Corporate Debts Financing
- Debenture Trust Deed and Trustees
- Conversion and Redemption of Debenture

Chapter 5
Membership in a Company

(No of Lecture 10)

- Modes of Acquiring Membership
- Rights and Privileges of Members , Register of Members
- Dematerialization and Rematerialization of Securities
- Transfer and Transmission of Securities in Physical and Dematerialized Forms
- Nomination

Recommended Books

- 1) Company law : the institute of company secretaries of Indian, Mdule1
- 2) A text of company law, P.P.S Gavgan, Jain Book Agency, Delhi
- 3) The company act 2013 Bare Act
- 4) Companies law and secretarial practice by N.D. Kapoor, Sultan chand & sons New Delhi
- 5) Company law by rattan Nolakha, Sultan chand & sons New Delhi

B.Com. Second Year Syllabus (w.e.f. 2017-2018)
Semester III (CBCS Patterns)

Principles of Business Management and practice

(CC X III)

No. of Lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessments (CA) (Internal)	35 Marks
Total	75 Marks
Total Credit	03

Objective:

To know to make planning, decision making, controlling, staffing, organizing etc. to understand new approaches in management

Chapter 1

Introduction of Management

(No of lecture 12)

Historical development of management (19th to 20th century), Definition of management, Scope of management, Role of management, Management Thinkers, F.W. Taylor and his scientific thought of management, Henry Fayol and his principles of management, Macgregor and his theory.

Chapter 2

Managerial Planning and Decision making

(No of lecture 10)

The Concept of Planning, Nature, Importance of Planning, Benefits and effective Planning process, Types of Planning, Decision making, definition and concept.

Chapter 3

Staffing and organizing

(No of lecture 12)

Nature, Definition, Personnel management, Selection Procedure, Steps of Selection Process, Training and Performance Appraisal

Definition, Importance, Principles of Organization, Types of Organization, Centralization and its Advantages & Disadvantages, Decentralization and its Advantages & Disadvantages

Chapter 4

New trends in management

(No of lecture 10)

TQM, Quality circles, Public Private Enterprise Partnership, Six sigma and Bench marking, kaizens

Chapter 5

Managerial Skills

(No of lecture 10)

Need and Importance, Classification of Skills, Process of Management Development, Steps of Management Development Process, Management Developments Techniques & Methods, Objectives of Management Development Programs, Planning of Development Program, Effectiveness of Development Program.

Recommended Books:

- 1) Principles of management by Dr. K.Natarajan and Dr.K.PGanesan
- 2) Principles of management by P.Subba rao
- 3) Principles of management by B.P.Singh / Dr.T Ramaswamy

B.Com. Second Year Syllabus (w.e.f. 2017-2018)

Semester III (CBCS Patterns)

Cost Accounting – I

(Core subject IV)

No. of Lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessments (CA) (Internal)	35 Marks
Total	75 Marks
Total Credit	03

Objective:

To understand knowledge of cost accounting, single output costing, material cost, labour cost and overhead

Chapter 1

Introduction to Cost Accounting

(No of Lecture 10)

Meaning, Definition, Nature and Scope, Objectives, Concept of Cost, Elements of Cost & Classification, Methods & Techniques of Costing

Chapter 2

Single Output Costing

(No of Lecture 10)

Meaning of Cost, Treatment of Stock of Raw Material, WIP, Finished Goods and Numerical Problems on Cost Sheet and Tender

Chapter 3

Material Cost

(No of Lecture 12)

Material Control, Purchase Procedure, Methods of Pricing, Material Issues- FIFO, LIFO, Simple & Weighted Average, Inventory Management- Fixation of Stock Levels-Minimum Level, Maximum Level, Reorder Level, Economic Order Quantity, ABC Analysis (Numerical Problems on Above)

Chapter 4

Labour Cost

(No of Lecture 12)

Meaning, Labour Cost Control, Time Keeping & Time Booking, Idle Time & Labour Turnover, Methods of Wage Payments; time Rate System, Incentive Plans of Halsey & Rowan, Taylor's Differential Piece Rate System

Chapter 5

Overheads

(No of Lecture 10)

Meaning, Nature, Collection and Classification of Overheads, Numerical Problems on Machine Hour Rate

Recommended Book

- 1) Cost Accounting- S.P. Jain and K.L.Narang
- 2) Cost Accounting, Dr.S.N Maheshwari
- 3) Cost Accounting – Ravi. M Kishore
- 4) Advance cost Accounting, P.Das Gupta
- 5) Practical Costing, Dr. Sanjivkumar S.Agggrawal DR.V.K. Bhosale, Dr.Pankaj Aboti

B.Com. Second Year Syllabus (w.e.f. 2017-2018)
Semester III (CBCS Patterns)
Banking and Finance

(CC XV)

No. of Lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessments (CA) (Internal)	35 Marks
Total	75 Marks
Total Credit	03

Objective

To study the Indian Banking system, Banking regulation act 1949, Commercial Bank, Development Bank and Digital Bank

Chapter 1

Indian Banking System

(No of lecture 12)

Introduction, Meaning and Definition, Evolution of Banking System, Structure of Banking System. Commercial Banking System in India: Introduction, Definitions and Functions.

Practical: Accounting Opening in Bank, Filling of Various Forms/Slips, Negotiable Instruments, Account Closure Procedure

Chapter 2

Banking Regulation Act, 1949

(No of lecture 12)

Introduction, Need of Banking Regulation Act, History of Banking Regulation Acts, Important Provisions, Social Control on Banking.

Practical: Financial Statement of Banks, Visit to Banks

Chapter 3

Nationalization of Commercial Banks

(No of lecture 10)

Introduction, Objectives of Nationalization of Banks, Nationalization of Commercial Banks, Narsingham Committee Recommendations (I & II)

Practical: Narsingham Committee Report

Chapter 4

Developments of Banks in India

(No of lecture 10)

Introduction, Objectives, Functions, Structure. NABARD, IDBI, ICICI, SFC, IFCI.

Practical: Visit to Development Bank in Area

Chapter 5

Digital Banking

(No of lecture 10)

Introduction, Importance of Technology in Banking, ATM, Debit Cards, Credit Card, Mobile Banking, Net Banking, E-Wallets, UPI, NEFT/RTGS, Green Banking, USSD.

Practical: Filling of NEFT/RTGS Forms, Understanding ATM Transactions, Using Debit Cards & Credit Cards for online Transactions.

Recommended Books:

- 1) S. Natrajan and Parmeswarn- Indian Banking, S.Chand New Delhi
- 2) Mukund Mahajan – Indian Banking system Nirali Prakashan,Pune
- 3) Gordon and Natranjan – Financial markets and services Himalaya publication house, Mumbai
- 4) Khan.M.Y Indian Markets and institutions , TataMcgraw Hill, New Delhi
- 5) Ruddar datt and Sundharam – Indian economy

B.Com. Second Year Syllabus (w.e.f. 2017-2018)

Semester III (CBCS Patterns)

Income tax –I

(CC XVI)

No. of Lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessments (CA) (Internal)	35 Marks
Total	75 Marks
Total Credit	03

Objective:

To give knowledge of direct and indirect tax

Chapter 1

Introduction

History of Income tax Act 1961

(No of Lecture 08)

Chapter 2

Basic concepts

Agriculture income, Person, Previous Year, Assessment Year, Assesses, Income, Gross Total Income, total Income

(No of Lecture 08)

Chapter 3

Income from Salary

(No of Lecture 14)

Chapter 4

Income from house property

(No of Lecture 14)

Chapter 5

Income from capital Gain

Note:- Income tax Rule for Problems Previous Year.

(No of Lecture 10)

Reference Book:

- 1) Taxman : Student guide to income tax by Dr. Vinod Singhaniya, Dr. Monica Sighaniya
- 2) Kalyani Publishers: Income Tax law and Practice by V P Gaur, D.B Narang,Puja Gaur, Rajeev Puri.
- 3) Shitya Bhawan : Direct Tax Law and Practices By Dr.H.C Mharotra Dr. S.P Goyal

Skill Enhancement Course

(Note: college can opt minimum one out of four)

B.Com. Second Year Syllabus (w.e.f. 2017-2018)

Semester III (CBCS Patterns)

Business Ethics

(SEC A- I)

No. of Lectures	45
End of Semester (University Exam)	25 Marks
Continuous Assessments (CA) (Internal)	25 Marks
Total	50 Marks
Total Credit	02

Objective:

- To understand ethic and responsibility of Business
- To enhance your capacity to think, act and lead ethically
- To having an ethical perspective means that you have capacity to maintain ethical attitude and behavior in your personal and professional.

Pre requisites

- The present discipline is part of cycle of social and economic discipline
- Studying of the discipline is based on the following discipline i.e. Philosophy, Sociology, Psychology, History and Cultural Science
- Student should demonstrate the following knowledge and components ability to speak English and to Write English

Chapter 1

Introduction to Business Ethics

(No of lecture 12)

Meaning of Ethics and Business Ethics, Objectives of Ethics, Nature of Ethics, Sources of Ethics, Importance of Ethics, Factors Influencing Business Ethics, Types of Ethics

Chapter 2

Ethical Aspects in Marketing

(No of lecture 12)

Introduction to Marketing, Direct Marketing, Marketing Ethics and Consumer Rights, Marketing Mix, Criticism of Ethics in Marketing

Chapter 3

Ethics in Finance

(No of lecture 15)

- Introduction
- Accountability and Acquisition
- Success
- Fair value
- Finance and Ethics
- Financial Markets

Chapter 4

Ethics in Social Responsibility and Corporate Social Responsibility

(No of lecture 15)

- Introduction
- Material Ethics
- Challenging Expectation of Social Responsibilities
- Concept of Corporate Social Responsibility
- Nature of Corporation & Its Object

Recommended Books

1. Murthy C.S.V. (2014), "Business Ethics Text and Cases", Himalaya publishing Pvt. Ltd
2. Prof. Bajaj P.S. and Prof. Agrawal Raj,(2012),"Business Ethics an Indian Perspective", Biztantra Management for the Flat world, New Delhi.
3. Murthy C.S.V. (2013), "Business Ethics and Corporate Governance", Himalaya Publishing Pvt. Ltd., Girgaon Mumbai.

B.Com. Second Year Syllabus (w.e.f. 2017-2018)

Semester III (CBCS Patterns)

E- Business Marketing

(SEC A - III)

No. of Lectures	45
End of Semester (University Exam)	25 Marks
Continuous Assessments (CA) (Internal)	25 Marks
Total	50 Marks
Total Credit	02

Objective :

- To create awareness about e-business marketing in student
- To understand the E-market context, E-business mode, performance metric & role of strategic planning
- To know how to use marketing function of product, pricing distribution and marketing communication for firm, E-marketing strategy.

Benefit:

- Cost and value creation: the marketing mix
- Creating positive customer experience
- Customer relationship management

Chapter 1

E-Business marketing

(No of Lecture 14)

Brief History of E-Business and Internet, E-Commerce to E-Business & Spotting E- Business Trends, Building E-Business, Horizontal & Vertical Market Places, Merits and Demerits E-Market Places, Structure, Online Market & Distribution, ECRM, Merits and Demerits, Future Trends

Chapter 2

E-Business Application

(No of Lecture 12)

E-Procurement & E-Payment System, E-Commerce Software & Payment Structure, Advantages, Methods & Techniques, E-Marketing, E-Market Environment

Chapter 3

Business Process Model

(No of Lecture 08)

Customer Centric Business, Pre-Order, Point of Order& Post-Order, Customer Support

Chapter 4

E-Business Environment

(No of Lecture 08)

Information Society, Multi-Optional Society, Ethics in Electronic Business, Privacy

Chapter 5

Digitizing the Business & E-Business

(No of Lecture 10)

Design, E-Channel Pattern, E-Portal Pattern, E-Market, Market Pattern, Self Diagnosis

Recommended Book

Judy Strauss and Raymond Frost (2009), E marketing upper saddle NJ: Premier Hall

B.Com. Second Year Syllabus (w.e.f. 2017-2018)

Semester III (CBCS Patterns)

Business Environment

(SEC A- III)

No. of Lectures	45
End of Semester (University exam)	25 Marks
Continuous Assessments (CA) (Internal)	25 Marks
Total	50 Marks
Total Credit	02

Objective:

To understand business environment

Chapter 1

Nature and Scope of Business Environment

(No of Lecture 12)

What is Business, Scope of Business, Characteristics of Today's Business, Business Goals, Nature of Environment, Benefits & Limitation of Study of Environment.

Chapter 2

Business Environment

(No of Lecture 12)

International Environment, External Environment, Micro Environment, Environmental Change, Techniques for Environmental Analysis

Chapter 3

Economic Environment

(No of Lecture 10)

Nature of Economic Environment, Economic Factors, Basic Economic Systems, Economic Planning

Chapter 4

Business and Society

(No of Lecture 10)

Ecology & Business, Ecology & Economic Development, Nature of Physical Environment, Impact of Business

Chapter 5

Integrating Environment & Strategic Management

(No of Lecture 10)

Integrating Environmental Segments, What is Strategic Management, Benefits and Requisites of Effective Strategy, Strategic Management Process.

Reference Books:

1. Business Environment for Strategic Management by Dr. K Aswathappa
Himalaya Publishing House, Mumbai
2. Business Environment by Francis Cherumilam
Himalaya Publishing House, Mumbai

B.Com. Second Year Syllabus (w.e.f. 2017-2018)

Semester III (CBCS Patterns)

E-Commerce

(SEC A-IV)

No. of Lectures	45
End of Semester (University Exam)	25 Marks
Continuous Assessments (CA) (Internal)	25 Marks
Total	50 Marks
Total Credit	02

Objective:

- Create awareness of e-commerce among student
- To know the role of E-commerce in world business scenario
- To develop the skills to use modern technologies for the business in global world
- To know and develop skills for cyber securities and secure payment gateway for cashless economy

Pre-Requisite:-

- Computer, Internet, Card Swipe Machine, Software for Online payment gateway

Benefit:-

- To aware students regarding cashless economy
- To help in knowing the E-Commerce and E-Payment

Chapter 1

Introduction

(No of Lecture 13)

Meaning, Nature, Concept, Advantages, Disadvantages and reason for transacting , online types of e-commerce, E-commerce models(introduction, Key, element of a business model and categorizing major e-commerce business models) forces behind of e-commences

Chapter 2

Security and encryption

(No of Lecture 13)

Ned and concepts, The e-commerce security environment (dimension, Definition and scope of e-commerce security) Security threats in E-commerce environment (security, intrusion and breaches attacking methods like hacking, sniffing, cyber –vandalism etc) Technology solution (encryption security channels of communication , protecting networks and protecting serves and clients)

Chapter 3

E –Payment System

(No of Lecture 14)

Models and methods of e-payment (Debit and credit card, E-wallet, Payatm, VPI, online cash transfer, E-Money) Digital signatures (Procedure, Working and legal position) Payment gateways online banking (meaning concept, Importance, electronic fund transferred NEFT, RTGS Automated clearing house, Automated ledger posing) risks involved in E-Payment.

Chapter 4

On line Business Transactions

(No of Lecture 14)

Meaning, Purpose, Advantages and disadvantages of transacting online E- Commerce application in various industries like (Banking, Insurance, payment of utility, Bills , Online marketing, e-tailing (Popularity, Benefit, and features) ,Online services (financial, Travel and career) , Auction , Online Portal, Online Learning, Publishing and entertainment, Online shopping (Amazon, Snap deal, Alibaba, Flip cart Etc)

Recommended Books

1. Kenneth C. Laudon and Carlo Guercio Traver, *E-Commerce*, Pearson Education.
2. David Whiteley, *E-commerce: Strategy, Technology and Applications*, McGraw Hill Education
3. Bharat Bhaskar, *Electronic Commerce: Framework, Technology and Application, 4th Ed.*, McGraw Hill Education
4. PT Joseph, *E-Commerce: An Indian Perspective*, PHI Learning
5. KK Bajaj and Debjani Nag, *E-commerce*, McGraw Hill Education
6. TN Chhabra, *E-Commerce*, Dhanpat Rai & Co.
7. Sushila Madan, *E-Commerce*, Taxman

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SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED,

Vishnupuri, Nanded- 431 606

B.Com.-II Year (Semester IV)

Choice Based Credit System (C.B.C.S)

SYLLABUS

W.e.f. 2017-18

Paper No.	Name of the Paper	Lecture/ Week	Total Period	Continuous Assessment (CA)	End of Semester Exam ESE	Total Marks	Total Credit	
CC XVII	Advanced Corporate Accounting	04	54	35	40	75	3	
CC XVIII	Business Law	04	54	35	40	75	3	
CC XIX	Risk Management	04	54	35	40	75	3	
CC XX	Advanced Planning of India	04	54	35	40	75	3	
CC XVI	Advance Cast Accounting	04	54	35	40	75	3	
CC XXII	Income Tax - II	04	54	35	40	75	3	
SEC II	B-I	Retail Business Accounting	03	45	25	25	50	2
	B-II	E- Cyber Crimes and Laws in Business						
	B-III	E-Insurance						
	B-IV	E- Governance						
							20	

SEC Should be Evaluated of Annually.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

B.Com. Second Year Syllabus (w.e.f. 2017-2018)

Semester IV (CBCS Patterns)

Advanced Corporate Accounting

(CC-XVII)

No. of Lectures	54
End of Semester (University Exam)	40
Continuous Assessments (CA) (Internal)	35 Marks
Total	75 Marks
Total Credit	03

Objectives:

The objective of the course into makes the students practically sound in maintaining accounting of corporate world

Chapter 1

Redemption of Debenture

(No of Lecture 10)

Meaning, types of debenture, Redemption of debenture. Problem on sinking fund Method only

Chapter 2

Amalgamation of companies

(No of Lecture 12)

Meaning and causes of amalgamation of companies, methods of purchase consideration opening and closing entries in the books of companies and preparation of balance sheet.

Chapter 3

Reconstruction of a company

(No of Lecture 10)

Meaning and need of reconstruction of company, types of reconstruction. Accounting entries related to internal reconstruction only preparation of revised balance sheet.

Chapter 4

Holding Company Account

(No of Lecture 12)

Meaning of holding company and subsidiary company, holding company accounts with its only one subsidiary company, consolidated balance sheet, pre acquisition and post acquisition of profit intercompany debt and bills and debenture, cost of control, minority interest, and practical problem on consolidated balance sheet.

Chapter 5

Liquidation of a company

(No of Lecture 10)

Meaning and cause of liquidation of a company, process of liquidation of a company, Role of company liquidation, accounting treatment of voluntary liquidation of a company

Recommended Book

- 1) Practical problem in advanced account only S.P.Jain and K.L.Narrang kalyani publishers
- 2) Advanced accounting – J..R.Batliso the standard account only publication private Ltd Mumbai.
- 3) Advanced accountancy : R.L Gupta,M Radnaswami sultan chand and sons new Delhi
- 4) A New approach to accountancy : H.R. Kotalwar discovery publishers Latur

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

B.Com. Second Year Syllabus (w.e.f. 2017-2018)

Semester IV (CBCS Patterns)

Business Law

(CC-XVIII)

No. of Lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessments (CA) (Internal)	35 Marks
Total	75 Marks
Total Credit	03

Objectives:

To acquired knowledge about law related to business

Chapter 1

Indian Contract Act- 1872

(No of Lecture 12)

Introduction, Definitions, Essentials of valid contract, Types of contract, E contract, Agreement and Contract, Discharge of contract, Remedies for breach of contract, E agreement

Chapter 2

The Negotiable Instruments Act 1881

(No of Lecture 12)

Introduction, Definitions and Characteristics, Promissory Notes, Bills Of Exchange, Cheque, Holder and Holder in due course, Presentation of negotiable instrument.

Chapter 3

The Sale of Goods Act 1930

(No of Lecture 10)

Introduction, Importance Definitions, Formalities of Contract of sales, difference between sales and agreement to sale and higher purchase, Conditions and warranties, Un paid seller.

Chapter 4

Consumer Protection Act 1986

(No of Lecture 10)

Introduction, Definition, consumer defects, deficiency and unfair trade practices, manufacture, Consumer council.

Chapter 5

Online shopping and legal provisions

(No of Lecture 10)

Introduction, Debit card and credit card purchase protection, consumer right regarding online shopping, selling regulation, five ways to shop online

Recommended book:

- 1) K.R.Bulchandani Business low for management, Himalaya Publication house, Mumbai
- 2) N.D kapur, Business law, sultan chand and sons Delhi
- 3) G.K Varshney business regulatory frame work sahitya bavan, Agra
- 4) S.N Maheshvari, Business law, Himalaya publication house, Delhi
- 5) Dr.P.R. Kulkarni Prof. Hiwrekar, vidhya books publication Aurangabad

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

B.Com. Second Year Syllabus (w.e.f. 2017-2018)

Semester IV (CBCS Patterns)

Risk Management

(CC XIX)

No. of Lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessments (CA) (Internal)	35 Marks
Total	75 Marks
Total Credit	03

Objectives:

- 1) To impart the knowledge to the students about possible risk events, preventions of risks, measurements of risk, management of risk
- 2) To give insight about risk management and to develop the ability to understand techniques of risk management.

Chapter 1

Introduction:

(No of Lecture 10)

Concept, Nature, Need and scope of risk, Sources, measurement, identification and evaluation of Risk. Types of risk: Product market risk and capital market risk, Business risk interest rate risk, Systemic risk, Unsystematic risk, Possible risk Events, risk Indicators.

Chapter 2

Risk Management:

(No of Lecture 10)

Concept, Risk management Process, pre-requisites and fundamentals, Misconceptions of Risk, An Integrated approach to Corporate risk Management. Risk management approaches and methods. Risk reporting process.

Chapter 3

Instruments and Techniques of Risk Management:

(No of Lecture 10)

Hedging Techniques: Internal and External Techniques- Netting, Matching, Leading and Lagging, Price Variation, Short term Borrowing, Pricing in foreign currency, Asset Liability Management.

External Techniques: Forwards, Futures, Swaps, Options, Forward Rate Agreement, Caps, Collars, Floors and their applications - Pricing, techniques, operational aspects.

Chapter 4

Portfolio Analysis

(No of Lecture 12)

Traditional Vs Modern Rationale diversification- Markowitz Theory, Effect of Combining Two Securities Measurement of Expected Return of Portfolio – Portfolio Risk .

Chapter 5

Insurance as an instrument of Risk Cover

(No of Lecture 12)

Marine, Life, Accident, Process, Loss of Profit Export Credit Guarantee Corporation

Recommended Books:

- 1) Paul Hopkins, Kogan Page " Fundamentals of Risk Management " 2010, Institute Of Risk Management
- 2) David. A. Dubofsky and Thomas . W. Miller, Jr., "Derivatives Valuation and Risk Management", 2003, Oxford University Press.
- 3) Jean-Philippe Bouchaud and Mark Potters, "Theory of Financial Risk and Derivative Pricing", 2009, 2nd Ed. Cambridge press
- 4) "Theory and Practice of Treasury and Risk Management in Banks" , Indian Institute of Banking and Finance, March 2006, Taxmann
- 5) Peter S. Rose and Sylvia C. Hudgins, "Bank Management and Financial Services", 7 th Ed, Tata McGraw-Hill
- 6) Don M. chance and Robert Brooks, "Derivatives and Risk Management Basics", 2008, Indian Edition, Cengage Learning
- 7) M. A. H. Dempster, "Risk Management: Value at Risk and Beyond", 2002, Cambridge press.
- 8) Principals of Insurance
- 9) Principals of Insurance-Mishra

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

B.Com. Second Year Syllabus (w.e.f. 2017-2018)

Semester IV (CBCS Patterns)

Advanced Planning in India

(CC XX)

No. of Lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessments (CA) (Internal)	35 Marks
Total	75 Marks
Total Credit	03

Objectives: To study economic planning in India

Chapter 1

Introduction

(No of Lecture 10)

Important features of Indian plans, Evolution of planning, objectives of Economic Planning in India, Role of planning in a market economy, Mixed economy and Economic planning, Accomplishments of Economic planning, PURA an appraisal of the planning process.

Chapter 2

Agricultural Development

(No of Lecture 10)

Introduction, Importance of Agriculture in National Economy, Need and Scope for land Reforms in a developing economy, Sources of Agricultural Finance, Model APMC Act, Agricultural subsidies, Investment in Agriculture, National Agriculture Policy. Vision 2020

Chapter 3

Infrastructure Development

(No of Lecture 12)

Introduction, Meaning and definition, Infrastructure and Economic Development, Transport System Role in India's Economic Development, Rail-Road Transport, Power or Electricity, Issues and policies in financing infrastructure development, Regional imbalance.

Chapter 4

Foreign Trade

(No of Lecture 12)

Meaning and definition of Foreign Trade, Structure and direction of Foreign Trade, Foreign Capital, Issues in Export-Import Policy, New Export-Import Policy (2015-20)- It's Features and Objectives, The progress of Trade Reforms in India, FPI (Foreign Portfolio Investment)

Chapter 5

NITI Aayog

(No of Lecture 10)

Introduction, Establishment of NITI Aayog, Objectives of NITI Aayog, Features of NITI Aayog, Role and Functions of NITI Aayog, difference between NITI Aayog and Planning Commission, Achievements of NITI Aayog .

Recommended Books:

1. Indian Economy- Ruddar Dutt and K.P.M. Sundaram- S. Chand Publication.
2. Indian Economy- V. K.Puri and S.K. Misra –Himalaya Publication.
3. Indian Economy- Ramesh Singh- McGraw Hill.
4. Indian Economy- Performance and Policies – UMA KAPILA
5. Indian Economy- Problems of Development and Planning- A.N. Agrawal and M.K.- New Age International Publishers.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

B.Com. Second Year Syllabus (w.e.f. 2017-2018)

Semester IV (CBCS Patterns)

Advanced Cost Accounting

(CC XXI)

No. of Lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessments (CA) (Internal)	35 Marks
Total	75 Marks
Total Credit	03

Objectives

To understand knowledge of cost, process, contract and operation

Chapter 1

Cost Accounting Records of cost Audit

(No of Lecture 10)

Nature of scope of cost audit. Cost Accounting Records and cost Audit. Under company Act- Purpose, scope and Advantages of cost Account, Implementing Authorities of cost Audit, Cost Audit Techniques and Programs, Cost Audit Report, Cost Auditor – Appointment Rights and responsibilities.

Chapter 2

Process Costing

(No of Lecture 12)

Meaning and Features of Process Costing Treatment of Normal loss. Abnormal loss and Abnormal Gains Joint Products By – Products and Accounting Practical Problems on above.

Chapter 3

Contract costing

(No of Lecture 12)

Meaning and features of Contract costing contract v/s Job costing Treatment of profit and Reserve Profit, value of work-in-progress and Practical Problems on Preparation of contract Account and Balance sheet.

Chapter 4

Operating Costing:

(No of Lecture 10)

Meaning and Features of operating costing service cost unit. Single and Compound unit. Practical Problems on Transport Industry.

Chapter 5

Reconciliation of Cost and Financial Account

(No of Lecture 10)

Need of Reconciliation, reasons for Disagreement in Profit as per cost and Financial Accounts Methods of Reconciliation Procedure of Reconciliation Practical Problems on Preparation of Reconciliation Statement.

Books Recommended :

1. Cost Accounting : S. P. Jain, K.L. Narang.
2. Cost Accounting : Dr. S. N. Maheshwari
3. Cost Accounting : Ravi M. Kishore.
4. Advanced Cost Accounting : P. Das Gupta
5. Practical costing : Khanna, Pande, Ahuja, Arora
6. Practical Costing: Dr. Sanjvkuar Agrwal
Dr. V.K Bhosle
Dr. Pankaj Aboti

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

B.Com. Second Year Syllabus (w.e.f. 2017-2018)

Semester IV (CBCS Patterns)

Income tax II

(CC XXII)

No. of Lectures	54
End of Semester (University Exam)	40 Marks
Continuous Assessments (CA) (Internal)	35 Marks
Total	75 Marks
Total Credit	03

Objectives:

To study about taxable income, computation of tax

Chapter 1

Exempted Income under Section 10

(No of Lecture 08)

Chapter 2

Income from Profession

(No of Lecture 10)

Chapter 3

Incomes from Business

(No of Lecture 12)

Chapter 4

Income from other source

(No of Lecture 12)

Chapter 5

Computation of total income with deduction under section 80C 80D 80DD, 80U and 80E

Note:- Income the Rules for Problems Previous year.

(No of Lecture 12)

Recommended book:

- 1) Taxman student Guide to income tax by Dr. vinod singnahaniya Dr.Monica signghaniya
- 2) Kalyani publication income tax law and practice by V.P Gaur ,D.B.Narang, Pooja Gaur, Rajeev Puri.
- 3) Sahitiya bhavan : direct tax law and practice by Dr.H.C Mharotra,Dr. S.P.Goyal

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Skill Enhancement course

(Note: College can opt minimum one out of four)

B.Com. Second Year Syllabus (w.e.f. 2017-2018)

Semester IV (CBCS Patterns)

Retail Business Accounting

(SEC B-I)

No. of Lectures	45
End of Semester (University Exam)	25 Marks
Continuous Assessments (CA) (Internal)	25 Marks
Total	50 Marks
Total Credit	02

Objectives:

- 1) to create awareness regarding retail and accounting transaction
- 2) To provide practical training to student

Chapter –1

Billing and Accounting procedure in retail

(No of Lecture 10)

- Introduction
- Billing procedure
- Accounting cycle for retail business
- Single VS Double entry book keeping system
- Computerized Accounting
- Automation of billing procedure

Chapter – 2

Accounting documents for retailers

(No of Lecture 12)

- Bills purchase bill and sales bill
- Invoice inward and outward
- Delivery challan
- Debit and credit note
- Voucher Debit and credit
- Stock register

Chapter- 3

Banking operations retailers

(No of Lecture 10)

- Types of bank account
- Opening bank account online and offline
- Cash deposit and withdrawn online and offline CDM, ATM
- RTGS, NEFT, IMTS
- Pass book and account statement
- Cheque writing, Deposit, online banking

Chapter - 4

Inventory management

(No of Lecture 10)

- Introduction and type of inventory
- Inventory management
- Inventory control system

Chapter- 5 Formal Activities

(No of Lecture 12)

- 1) Writing cash book (traditional method)
- 2) Using bar code reader for billing
- 3) Use of special key board for billing
- 4) Preparation of sales bill (manual) and computerized generation of bar code
- 5) Preparation of voucher Dr voucher and Cr voucher
- 6) Preparation of Dr Note and Cr Note
- 7) Preparation of invoice
- 8) Preparation of delivery challan
- 9) Preparation of stock register
- 10) Filing of accounting documentary
- 11) Filling of bank account opening form
- 12) Cash withdrawal and depositing using automated and manual system
- 13) Filing of RTGS AND NEFT FORMS
- 14) Reading of pass book and account statement
- 15) Writing of cheque
- 16) Depositing cheque
- 17) Stock verification

Recommended Book:

- 1) Study module of CA & CS AND CMA
- 2) Web of public and private sector bank
- 3) Financial Accounting – Jain and Narang
- 4) Cost Accounting by Jawaharlal

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

B.Com. Second Year Syllabus (w.e.f. 2017-2018)

Semester IV (CBCS Patterns)

Cyber Crimes and Laws in Business

(SEC – B II)

No. of Lectures	45
End of Semester (University Exam)	25 Marks
Continuous Assessments (CA) (Internal)	25 Marks
Total	50 Marks
Total Credit	02

Objective:

This paper intends to create an understanding towards the cyber crimes and to familiarize the students with the application of cyber laws in business and general.

Chapter 1

Introduction to cyber crimes

(No of Lecture 15)

Introduction of computer crime and cyber crimes distinction between cyber crime and conventional crimes, cyber forensic, kinds of cyber crimes, cyber stalking, cyber terrorism, forgery and fraud, crimes related to IPR, Computer vandalism, privacy of online data, cyber jurisdiction, copyright issues, and Domain name dispute etc.

Chapter 2

Definition and terminology (information technology Act, 2000)

(No of Lecture 15)

Concept of internet, internet Governance, E Contract, E forms, encryption, Data security, Access, Addressee, Adjudication officer, Affixing, Digital signatures, appropriate Government, Certifying authority, certification practice, Certification practice statement, computer, computer Network, Computer resource, Computer system, cyber appellate tribunal, Data Digital signature, Electronic form, Electronic Record, Information Intermediary, Key, Pair, Originator, Public key, Secure System, Verify, subscriber as defined in the information technology Act, 2000

Chapter 3

Electronic Records

(No of Lecture 12)

Authentication of Electronic Records, Legal Recognition of Electronic Records, Legal Recognition of digital signatures, Use of electronic records And Digital signatures in government and its agencies, Retention of electronic records, Attribution, Acknowledgement and dispatch of electronic record, secure electronic records and digital signatures.

Chapter 4

Cyber Crime in Business

(No of Lecture 12)

Introduction, Different types of cyber crime in business precautions to avoid cyber crime in business (Case Study of cyber crime)

Recommended Books:

- 1) Dfraim Turban, Je Lee, King, David and H M Chung, Electronic Commerce – A Managerial Perspective, Pearson Education
- 2) Joseph, P.T E- Commerce - An Indian Perspective PHI
- 3) Chaffey, Dave, E Business and E- Commerce Management, Pearson Education
- 4) Paintal, Dcv, Law of information Technology, Taxman publication Pvt New Delhi
- 5) Sharma J.P. and sunaina kanojia cyber laws, Ane books Pvt Ltd, New Delhi

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

B.Com. Second Year Syllabus (w.e.f. 2017-2018)

Semester IV (CBCS Patterns)

E-Insurance

(SEC B - III)

No. of Lectures	45
End of Semester (University Exam)	25 Marks
Continuous Assessments (CA) (Internal)	25 Marks
Total	50 Marks
Total Credit	02

Objectives

- 1) The aim of this course is to give some insight about e-services in insurance sector.
- 2) Ability to understand online services regarding insurance policy.
- 3) To impart insurance knowledge and skills together with technology-familiarity and customer-orientation.

Chapter 1

Introduction

(No Of lecture 10)

Meaning and Definition of Insurance; Types of Insurance Life Insurance and General Insurance, Selling and Buying of Life Insurance Policies, and General Insurance (Health Insurance Policies, Motor Policies, Property Insurance Policies, Travel Insurance Policies, Crop Insurance) Why, what ,How and dos and don'ts approach in buying

Chapter 2

Insurance as a Career

(No of Lecture 10)

Insurance sales Agent, as a career, educational qualifications, how to become a insurance sales agent, insurance sales training, license certifications and registration, important qualities of insurance sales agent, duties of insurance agent, job outlook for insurance agent,

Chapter 3

Information Technology (IT) Application in Insurance

(No of Lecture 12)

Introduction, objectives, meaning of information technology, insurance related applications, policy management, life insurance applications, insurance software; collection of basic Information of various software used by insurance agents

Chapter 4

Concept of E-Insurance

(No of Lecture 12)

E-Insurance meaning, Features of e-insurance account, Benefits of e-insurance account IRCA Guidelines for e-insurance policies, insurance Repository, Background, Role and Objectives of insurance Repositories, the repository Eco-system, Meaning of e-insurance account, opening of e-insurance account by insurance repository branch and approved persons, KYC documents, Opening of e-insurance account by insurer, Issuance of e-policy , policy servicingE-insurance application form, statement of account, payment options, grievances mechanism, portability of insurance repository

Chapter 5

Filing of Forms

(No of Lecture 10)

Filing of Standard proposal form for life insurance, Health, Motor, Property and Travel insurance, Details of proposer and or/life assured, specialized/ additional information, suitability

Analysis, product proposed, filing of claim Forms, Hand's on Activity: (Practical's to be conducted on above parts) any five out of eight

- 1) Visit/ lectures of / to insurance agents office
- 2) Preparing action plan of an insurance agent
- 3) Collection of detailed information of 5 Products sold by at 5 life insurance, health, motor, Property and Travel insurance companies each
- 4) Presentation of 5 insurance products before students in class-room and its assessment by teacher
- 5) Collections of essential forms of policies like life Insurance, health insurance, Motor insurance, Property Insurance and Travel Insurance
- 6) Filing of proposal forms- life, health, insurance, motor, property, and travel insurance (5 each)
- 7) Opening of e-insurance account (e-insurance account opening of at least 10 Persons)
- 8) Preparing claim forms

Books Recommended:

- 1) Mishra.M.N Insurance principles and practice s.chand and company New delhi
- 2) Dr.P. Periasamy, Principles and practice of insurance Himalaya Publication house –Delhi
- 3) Vinayakam N Radhaswamy and vasudevan S.V Insurance –principles, s. chand and con New delhi
- 4) Insurance resulatory and development authority – Insurance repository A step towards e-insurance available on [www. Policyholder.gov.in](http://www.Policyholder.gov.in)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

B.Com. Second Year Syllabus (w.e.f. 2017-2018)

Semester IV (CBCS Patterns)

E- Governance

(Course B- IV)

No. of Lectures	45
End of Semester (University Exam)	25 Marks
Continuous Assessments (CA) (Internal)	25 Marks
Total	50 Marks
Total Credit	02

Objective:

To study the concept of e-governance models and online transaction

Chapter 1

Introduction

(No of Lecture 12)

Meaning of governance and e-governance, difference between governance and e-governance, need of e-governance, advantages and disadvantages of e-governance, scope of e-governance

Chapter 2

Models of e-governance

(No of Lecture 10)

Introduction, Government to Citizens, Government to Employees, Government to Business, Government to Government.

Chapter 3

Areas of E-governance

(No of Lecture 10)

E-governance in urban areas
E-governance in rural areas

Chapter 4

Online Transaction:

(No of Lecture 12)

Online payments various bills, Taxes, EMI'S, Paytm, Freecharge, online banking-NEFT,RTGS .

Chapter 5

Practical

(No of Lecture 10)

Mobile recharge, Dish TV recharge, Electricity Bills payments, Online Banking.

Recommended Books

1. e-governance concepts and case studies, C S R Prabhu Prentice-Hall of India pvt.ltd.Kindle Edition.
2. e-book on e-governance A Gateway of Smart governance. Dr.M K Sharma, Haldwani (Uttarakhand)
3. e-governance Dr. Vinod V. Chinte Master Deenanath Mageshkar college,Aurad Shahajani.

* * * * *



॥ सा विद्या या विमुक्तये ॥
स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड
“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)
SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED
“Dnyanteerth”, Vishnupuri, Nanded - 431606 Maharashtra State (INDIA)
Established on 17th September 1994 – Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



ACADEMIC (1-BOARD OF STUDIES) SECTION

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वाणिज्य व व्यवस्थापन विद्याशाखेतील
B.Com. I Year (Sem-I & II) या विषयाचा
सी.बी.सी.एस. पॅटर्नचा अभ्यासक्रम शैक्षणिक
वर्ष २०१९-२० पासून लागू करण्याबाबत.

परिपत्रक

(संदर्भ: परिपत्रक शैक्षणिक-१/परिपत्रक/पदवी-सीबीसीएस अभ्यासक्रम/२०१८-१९/३८६२, दिनांक २३.०५.२०१९.)

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, संदर्भीय परिपत्रकान्वये प्रस्तुत विद्यापीठाच्या वाणिज्य व व्यवस्थापन विद्याशाखेतील खालील विषयाचा **C.B.C.S. (Choice Based Credit System) Pattern** नुसारचा अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्यात आला होता.

1) B.Com. I Year (Sem-I & II)

तथापि, शैक्षणिक वर्ष २०१९-२० पासून उपरोक्त विषयाचा नवीन अभ्यासक्रम लागू करण्यात येत असल्याने संदर्भीय परिपत्रक रद्द समजण्यात यावे.

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,
विष्णुपुरी, नांदेड - ४३१ ६०६.
जा.क्र.: शैक्षणिक-१/परिपत्रक/पदवी-सीबीसीएस
अभ्यासक्रम/२०१९-२०/११३९
दिनांक : ३०.०८.२०१९.



स्वाक्षरित / -
उपकुलसचिव
शैक्षणिक (१-अभ्यासमंडळ विभाग)

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ६) सीनियर प्रोग्रामर, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.



B.Com. I Year (Semester I)

Paper Code	Name of the Paper	Semester	Type	Marks	Credit
B.C. 1.1	Fundamentals of Financial Accounting	I	core	100	04
B.C.1.2	Business Statistics	I	core	100	04
B.C.1.3	Business Economics	I	core	100	04
Disciplinary Course					
B.C.1.4	Fundamentals of Business Communication	I	core	100	04
Elective Any one					
B.C.1.5.1	Computer for Business	I	Elective	100	04
B.C.1.5.2	Office Management	I	Elective	100	04
B.C.1.5.3	Fundamentals of Salesmanship	I	Elective	100	04
B.C.1.5.4	Business Law I	I	Elective	100	04
B.C.1.5.5	UGC Vocational Course	I	Elective	100	04

Examination Pattern

Continuous Assessment

Core and Elective Subjects

1. Two Class Test of 10 Marks Each
2. Assignment / Tutorial / Seminar Presentation for 05 Marks in the Particular Subject

End of Semester Examination (ESE)

1. Question No. 1 Compulsory for 20 Marks on any Topic
2. Question No. 2 to Question No. 4 Alternative type Questions carrying 15 Marks each
2. Question No. 5 will be short Notes on any two of the given Four for 10 Marks



B.Com I Year (Ist Semester)
Fundamental of Financial Accounting
Paper No. BC 1.1

No. of Lectures	54
End of Semester (University Exam)	75 Marks
Continuous Assessment (CA)	25 Marks
Total	100Marks
Total Credit	04

Learning Objective:

Objective of this course is to provide the skill of

- i) **Recording**
- ii) **Maintaining**
- iii) **And presenting the accounting and financial fact**

Utility :

Student Can Understand the :

- i) Accounting Knowledge
- ii) Application of Accounting in Business

Prerequisite :

Basic knowledge of Accountancy.

Unit 1: Introduction of Accountancy

- Meaning of Accountancy
- Objective of Accountancy
- Types and rules of debit and credit
- Journal, Ledger
- Indian Accounting Standard
- Numerical Problems on Journal and Ledger

Unit 2 :Final Accounts of Sole Trader

- Meaning of Final Account
- Trading Account
- Profit and Loss Account
- Balance Sheet
- Adjustment Entries
- Numerical Problems on Final A/c of Sole Trader

Unit 3 :Joint Venture Account



- Meaning of joint venture
- Co-venture
- Numerical Problems on Joint venture

Unit 4 :Hire Purchase System:

- Meaning of Hire Purchase Contract
- Legal Provisions Regarding Hire Purchase Contract
- Numerical Problems

Unit 5 :Royalty Accounts :

- Meaning of Royalty
- Minimum Rent, Short working
- Numerical Problems on Royalty

Reference Book:

- 1) Advanced Accountancy Jain, Narang
- 2) Advanced Accountancy R.C. Shukla
- 3) New Approach to Accountancy. H.R. Kotalwar
- 4) Advanced Financial Accounting Dr. S.S. Agarwal, Dr. P. Aboti
- 5) Book keeping & Accountancy – Dr. Shivprasad Dongre



B.Com. I Year (Ist Semester)
Paper No. BC 1.2
Business Statistics

No. of Lectures	54
End of Semester (University Exam)	75 Marks
Continuous Assessment (CA)	25 Marks
Total	100Marks
Total Credit	04

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Learning Objective:

The objective of this course is to provide fundamental knowledge of statistical techniques useful for business analysis.

Utility:

Student can understand the basic concept of statistics and its application in business and data analysis.

Prerequisite:

Basic knowledge of simple mathematics

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Unit 1 Introduction to Statistics

- Meaning and Definition of Statistics
- Scope of Statistics
- Limitations of Statistics
- Collection and Presentation of Statistical Data
- Meaning of Primary and Secondary data.
- Qualitative and quantitative data
- Discrete and Continuous variables, frequency and frequency distribution.

Unit 2 Measures of Central Tendency (Averages)

- Meaning and Concepts of Central Tendency.
- Arithmetic Means : Definition, Properties of Arithmetic
- Mean, Combined Mean
- Positional Averages: Median & Mode Partition Values.
- Empirical relation between Mean, Median and Mode.
- Merits and Demerits of Mean, Median and Mode
- Numerical Problems

Unit 3 Measures of Dispersion

- Meaning and Concepts of Dispersion.
- Range - Meaning, Definition, Coefficient of Range.
- Quartiles Deviation, Meaning, Definition, Coefficient of Quartile Deviation
- Mean Deviation - Meaning, Definition of Mean Deviation (about mean, median), Co-efficient of Mean Deviation



- Standard Deviation and Variance - Meaning, Definition, Coefficient of Standard Deviation Combined Standard Deviation for two groups.
- Coefficient of Variance - Meaning & definition.
- Merits & Demerits of Quartiles Deviation, Mean Deviation and Standard Deviation
- Numerical Examples.

Unit 4 Co-relation Analysis (Two Variables Only)

- Meaning, Definition and Types of Co-relation.
- Karl Pearson's Coefficient of Correlation
- Probable Error
- Numerical Problems

Unit 5 Regression Analysis (Two Variables only)

- Meaning and Concepts of Regression
- Regression Lines, Regression Equations, Regression Coefficients
- Relation between Coefficient Correlation and Regression
- Numerical Problems

Reference Books

1. S. P. Gupta – Statistical Methods – S. Chand Publication.
2. S. C. Gupta – Fundamentals of Statistics – Himalaya Publication.
3. N. G. Das and Dr. J. K. Das – Business Mathematics and Statistics – McGraw Hill Education.



B.Com. First Year Revised Syllabus (w.e.f.2019-20)
Semester Ist (CBCS Pattern)
Paper No. BC 1.3

Business Economics-I

No. of Lectures	54
End of Semester (University Exam)	75 Marks
Continuous Assessment (CA) (Internal)	25 Marks
Total	75 Marks
Total Credit	04

Course Objective: The objective of this course is to acquaint the students with the business economic principles and theories as are applicable in business.

Pre-requisites: There is need of smart class room along with traditional class room and reading and library facility.

Course Utility: Students will be acquainted with the business economic principles and theories as are applicable in business.

Course Contents

Unit 1. Introduction to Business Economics:	11
Meaning, Definition, Characteristics And Significance of Business Economics, Objective of a Business Firm, Characteristics of Macro and Micro Economics.	
Unit 2. Demand Analysis:	11
Concept of Demand, Law of Demand, Elasticity of Demand, Determinants of Elasticity of Demand. Methods of Measurement of Elasticity of Demand, Importance of Elasticity of Demand.	
Unit 3. Theory of Consumer Behaviour:	11
Utility Analysis: Law of Diminishing Marginal Utility, Law of Equi-Marginal Utility; Indifference Curve Analysis: Properties of Indifference Curve	
Unit 4. Theory of Production:	11
Concept of Production Function, Law of Variable Proportions, Laws of Returns To Scale, Iso-Quant Curve Technique, Properties of Iso-Quant Curve	
Unit 5 Theory Of Costs:	10
Difference Cost Concept, Short Run Cost Curves: Fixed Cost, Variable Cost, Total Cost, Average Fixed Cost, Average Variable Cost, Average Total Cost, And Marginal Cost, Long Run Cost Curves: Average Cost And Marginal Cost	

References:

- 1) Ahuja H.E. Business Economics ; S.Chund And Co.New Delhi.
Koustsoyianni ; A Modern Micro Economics : Macmillan New Delhi.
- 2) D.M. Mithani, G.K.Murthy; Fundamentals Of Business Economics.
Himalaya Publishing House, New Delhi.
- 3) G.N.Zambre : Business Economics : Pimplapure Publishers Nagpur.
- 4) V.G.Mankar : Business Economics. Himalaya Publishing House, Bombay, Delhi. Nagpur.



B.Com. I Year (I Semester)
Paper No. : BC 1.4
Fundamentals of Business Communication

No. of Lectures	54
End of Semester (University Exam)	75 Marks
Continuous Assessment (CA)	25 Marks
Total	100 Marks
Total Credit	04

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Course Objectives

- i) To Develop Communication Skills of Students
- ii) To help in personality development
- iii) To improve speaking, writing, and interview skills of students.

Utility: - Adequate Knowledge about good communication in business

Prerequisite: - Major resources of communication process provide to the students

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Unit: I Introduction to Business Communication

Introduction, Definitions, Nature, objectives and Importance of communication Basic forms of communication process. Stages in communication Process, SWOC analysis.

Unit: II Corporate communication

Formal and Informal communication network. Barriers of Communication. Improving communication and solution to avoid Barriers, Group discussion, Seminar, Mock interview.

Unit: III Effective Business Communication

Definition of Effective Communication, Need of effective communication Principles of effective business communication.

Unit IV Effective oral communication

Principles of effective oral communication speech preparation, Guidelines of effective speech, the art of presentation, the essential features of an interview. Distinction between written and oral communication.

Unit V Modern Tele Communication

Tele conferencing, E-mailing, Faxes, Tele communication, Mobile Phone Conversation, Video conferencing.

Reference Books

1. Business Communication – D.D.Singhal – Ramesh Book Depo. Jaipur
2. Business Communication – Varinder Kumar- Kalyani Publication Ludhiyana
3. Communication Skill- DR P L Pardeshi –Nirali Publication Pune
4. Essential of Business Communication – Rajendrapal – sultan chand& son New Delhi



Elective Subject any one of the Following

B.Com. I Year (I st Semester)

Paper No. : BC 1.5.1

Computer for Business

No. of Lectures	54
End of Semester (University Exam)	75 Marks
Practical (CA)	25 Marks
Total	100 Marks
Total Credit	04

Course Objectives

- i) To develop awareness about computer
- ii) To know the recent advances in the Information technology field
- iii) To develop knowledge about internet, email and social networking

Utility: - Adequate Knowledge about Information technology

Prerequisite: - basic knowledge of the computer

Unit: I Introduction to Computer

Introduction, Meaning, Definition, basic of storage and input output device, importance of computer in business and number system.

Unit II: Using MS-Word

Meaning and role of word processing, documents in MS word, features of MSWORD, creation and saving of word document, searching, opening, closing and printing a document, copying, moving and cutting text n word, cut, paste, moving text between documents, changing case, fonts, applying bold, underline and italic, insertion of pictures, symbols and special characters, page setting, margin styles and settings, table creation in word document, columns and rows insertion, deletion, formatting a document, formatting toolbar, table and border toolbar, border shading dialogue, bullet and numbering, mail merge procedure in word, using forms, labels and envelops, use of help in word document.

Unit III: MS-Excel

Structure of worksheet and its usage in commercial applications, creating worksheet and its usage in commercial applications, creating worksheet in MSEXCEL, formatting and layout of worksheet, Excel Templates, working with range, rows, columns, total, sorting, formatting Toolbars, moving cell contents, alignment of worksheet text, border Colour, handling workbook, working with formulas and functions – SUM, PRODUCT, AVERAGE, COUNT, MAX, MIN, SQRT etc., Chart in Excel, Types, Graphs, Axes, Variable, Labels, Legends, Titles, Analysis of Data in Excel, Exploring built in function of Excel, sharing data with other desktop applications.

Unit IV: MS-Power Point

Presentation in Business with Power Point; Creation of Slides, adding Object, Movies, Sound, Animation, Styles of Presentation and linking Procedures, Slides Colour Scheme, background, Custom Animation, Slide Transition, Slide Show.

Unit V Computer Networking (Internet)

Introduction, Importance of Internet, Internet & WWW, Internet & Email, Internet & E-Commerce, Social networking, Advantages & Disadvantages of Social Networking for Business.



Practical:

- Familiarizing with Word
- Creating WORD DOCUMENT
- Creating Memorandum of Association of a Company Limited by Shares
- Specimen of Certificate
- Specimen of Notice and Agenda
- Specimen of Pay-in Slip
- Specimen of Cheque
- Specimen of Cash Memo
- Specimen of Invoice
- WORKSHEETS In Excel
- Specimen of Final Accounts
- Specimen of Result Register
- Specimen of Cost Sheet
- Specimen of Store Ledger
- Specimen of Fees Register
- Power Point presentation of slides showing subjects of B.Com and Courses offered in college
- Create own email ID

Reference Books

- ChefanShrivastava - Fundamentals of Information Technology –Kalyani Publishers, New Delhi.
- Dr. JitendmAhirrao - Information Technology - Kailash Publications, Aurangabad.
- Kapur V.K. - Computers & Information Technology - Sultan Chand & Sons, New Delhi.
- S.K. SrinivasaVallabhan - Computer Applications in Business –Sultan Chand & Sons, New Delhi.
- V. Rajaraman - Fundamentals of Computers - Prentice Hall of India, New Delhi.
- Cox- Microsoft Word 2010: Step by Step- Prentice Hall India Learning Private Limited (2010)
- Prof. Satish Jain & M. Geetha -MS-Office 2010 Training Guide- BPB Publications
- Dr. Shivprasad Dongare, Shaikh Dagdu - Computer Fundamentals with MS Office



B.Com. I Year (I Semester)
Paper No. B.C. 1.5.2
Office Management

No. of Lectures	54
End of Semester (University Exam)	75 Marks
Continuous Assessment (CA)	25 Marks
Total	100 Marks
Total Credit	04

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Objectives:

- 1) To familiarize students about concept and Importance of office management, Office accommodation and layout
- 2) To make student aware about office environment and record administration
- 3) To provide Information about office communication, office supervision and Personal management
- 4) To give students Idea about office report and law to minimize cost in office Management

Learning outcomes: - 1 Students can understand the practices of office administration
2 The students can learn to maintaining the official files and documentation

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Unit I: Office Management and Office Accommodation & Layout:

Definition, functions of Office Management, Principles of good office Management

Unit II: Office Accommodation

Office building: size, layout, safety and security measures- Reception: Importance, shape and size, control- Communication: Feature, classification, barriers. - Arrangement and adjustment: Furniture, allotment of seats, chambers, cabins rooms etc.

Unit III: Office Environment:

Office lighting, ventilation. Interior decoration. Security, Purpose of record administration. Principles of record administration, Filing System.

Unit IV: Office Communication:

Process of office communication. Importance, Barriers, Types of office communication.

Unit V: Office Supervision and Personal Management:

Functions, Recruitment of personnel. Job description. Sources of recruitment. Job evaluation, Training of employees. Employee welfare. Office supervision. Features, Effective supervision. Supervisor and Ms Responsibilities.and work distribution.

References:

1. D.C. Kapoor- Marketing and Sales Management - S.Chand Publication.
2. Vinod N. Patel & Girish K. Rana - Dynamic Techniques of Sales Management - Oxford Book Company Jaipur.

3. Richard R. Still, Norman A.P. Govoni & Edward W. Cundiff - Sales

Management – Prentice Hall of India Pvt Ltd. New Delhi.



B.Com. I Year (I Semester)
Paper No. BC. 1.5.3
Fundamentals of Salesmanship

No. of Lectures	54
End of Semester (University Exam)	75 Marks
Continuous Assessment (CA)	25 Marks
Total	100 Marks
Total Credit	04

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 Learning Objectives: This Course is designed to help Students to Learn Qualities and Functions of Salesmanship in a Changing Global Scenario

Learning outcomes:-

1. Identifying customers and their needs
 2. Marketing sales presentation and organizing demonstration
 3. Computer basics and needs and used in selling techniques
-

Unit I: Salesman and Salesmanship:

Meaning, Definition and Importance of Salesmanship, Types of Salesman, qualities of Good Salesman.

Unit II: Personal Selling and Salesmanship:

Meaning, Nature and Importance of Personal Selling, Personal Selling V/s Salesmanship, objectives of Personal Selling, Process of Personal Selling, Types of Personal Selling.

Unit III Buying motives.

Types of markets. Consumer and industrial markets, Their Characteristics and Implication for the selling function. Types of consumer

Unit IV: Consumer Behaviour and Salesmanship:

Nature of Consumer Behaviour, Types of Customers, Buying Motives, Consumers Buying Process, Customer Relationship Management (CRM).

Unit V: Sales Presentation:

Principles of Sale Presentation, Sales Presentation Skills, Theories of Selling- "AIDAS" Theory of Selling, "Right Set of Circumstances" Theory of Selling, "Buying Formula" Theory of Selling. "Behavioural Equation" Theory of Selling.

References:

1. D.C. Kapoor- Marketing and Sales Management - S.Chand Publication.
2. Vinod N. Patel & Girish K. Rana - Dynamic Techniques of Sales Management - Oxford Book Company Jaipur.
3. Richard R. Still, Norman A.P. Govoni & Edward W. Cundiff- Sales Management - Prentice Hall of India Pvt Ltd. New Delhi.



B. Com. First Year (I Semester)

Paper No. BC 1.5.4 Business Law I

No. of Lectures	54
End of Semester (University Exam)	75 Marks
Continuous Assessment (CA)	25 Marks
Total	100 Marks
Total Credit	04

Objectives:

To make students aware about various forms of business and the Acts governing these forms

Unit I: Indian Partnership Act – 1932

(No. of lectures 12)

Definition, test of partnership, rights and duties of partners, registration of firm, effects of non-registration, reconstitution of firm, dissolution of firm

Unit II: Limited Liability Partnership Act – 2008

(No. of lectures 10)

Advantages of LLP, drawbacks of LLP, definition of words body corporate, designated partner, LLP, LLP agreement, nature of LLP, incorporation of LLP, partners and their relations, liability of LLP and LLP partners, contribution by partners, difference between partnership and LLP, mutual rights and duties of partners and LLP as per First Schedule

Unit III: Maharashtra Co-operative Societies Act – 1960

(No. of lectures 12)

Various types of societies i. e. agricultural marketing society, apex society, consumer's society, co-operative bank, farming society, federal society, general society, housing society, lift irrigation society, processing society, producers' society, resource society, types of members, registration of a society, membership of society, rights and liabilities of members, voting powers of members, cessation of membership and removal of member, reserve fund, committee its powers and functions;

Unit IV: The Information Technology Act – 2000

(No. of lectures 8)

Important definitions, digital signature, electronic governance, electronic signature certificate

Unit V: Bombay Public Trusts Act – 1950

(No. of lectures 12)

Meaning of public trust, meaning of charitable purpose, registration of public trusts, budget, accounts and audit of trusts, powers and duties of trustees and restriction on trustees, powers and functions of charity commissioner, suspension, removal and dismissal of trustees;

References:



1. Elements of Mercantile Law by N. D. Kapoor, Sultan Chand & Sons, New Delhi
2. Business Law for Management, K. R. Bhulchandani, Himalaya Publishing House, Mumbai
3. Business Regulatory Framework, G. K. Varshney, Sahitya Bhavan, Agra
4. Business Laws, S. N. Maheshwari, Himalaya Publishing House, Mumbai
5. Business Regulatory Framework, Sheth, Kulkarni, Puranik, Kulkarni, Diamond Publications, Pune
6. Various Bare Acts
7. Web-sites of various Government Regulators



Paper No. BC 1.5.5
UGC Vocational Course-Tax Procedure & Practice
Paper: TPP-I
(Goods and Service Tax-I)
 (This Paper is Alternative for Second Language-I)

No. of Lectures	54
End of Semester (University Exam)	75 Marks
Continuous Assessment (CA)	25 Marks
Total	100 Marks
Total Credit	04

Course objective: The objective of the course is to provide the candidates with sound knowledge of the important provisions of the GST act and their applications in practice.

Pre-requisites: There is need of smart class room along with traditional class room and reading and library facility.

Course utility: Students will be acquainted with sound knowledge of the important provisions of the GST act and their applications in practice.

Course Contents

Unit 1. Introduction:	10
Genesis of GST in India, Power to tax GST (Constitutional Provision). Title, extent and commencement, Number of Legislations, Rates of CGST/SGST And IGST,	
Unit 2. Definition and Meaning of GST:	12
Definition of GST, Benefits of GST, Conceptual framework Taxes subsumed into GST, Amendments in 7th Schedule of Constitution, GST (Compensation To State) Cess.	
Unit.3. Administration & Classification Under GST :	10
Administration under GST , Brief about GST council, Classification System under GST	
Unit.4. Levy of Tax :	12
Levy & Collection of GST [Sec.9 CGST Act] ,Composition Scheme under GST [Sec.10 CGST Act,Power to grant Exemptions [Sec.11 of CGST Act]	
Unit.5 Concept of Supply:	10
Taxable Event – Supply,Meaning and Scope of Supply [Sec.7] Schedule I,II,III Composite and Mixed Supplies [Sec.8]	

References:

- 1) Taxmann – S.S. Gupta
- 2) Taxation Books on GST – Raj K. Agrawal
- 3) Laymen's Guide to GST - CA Deeraj Sharma
- 4) Bharat's GST Law – CA kashis Gupta
- 5) Bangar's Beginner Guide to GST – Dr. Vandana Bangar



B.Com. First Year (I Semester)
Paper No. B.C.1.5.5
UGC Vocational Course-Tax Procedure & Practice
Paper: TPP-II
(Indian Tax System & Income Tax Law-I)
(This Paper is Alternative for Elective)

No. of Lectures	54
End of Semester (University Exam)	75 Marks
Continuous Assessment (CA)	25 Marks
Total	100 Marks
Total Credit	04

Course Objective: The objective of the course is to provide the candidates with sound Knowledge of the important provisions of the Income Tax Law and their applications in practice.

Pre-Requisites: There is need of smart class room along with traditional class room and reading and library facility.

Course Utility: Students will be acquainted with sound knowledge of the important provisions of the income tax law and their applications in practice.

Course Contents

Unit 01	Introduction of Tax.	08
	Basic concept of Tax, Assesse, Assessment Year, Financial Year, Previous Year, Concept of Income Tax, Person. Income Heads under Income Tax Act.	
Unit 02	Income from Salary:	12
	Computation of income from salary, Gross salary, Taxable salary, HRA, Rent Free Accommodation, Medical Benefit, Education Allowance, Provident Fund, Car, Other taxable & partly taxable allowance	
Unit 03	Income From House Property:	12
	Computation of Income from House Property, Municipal Rent, Fair Rent, Standard Rent, Municipal Tax, Standard Deduction, Interest on Loan.	
Unit 04	Income from Capital Gain:	10
	Computation of Income from Capital Gain, Short term & long term capital Gain.	
Unit 05	Computation of Tax Liability & Agriculture Income.	10
	Computation of Tax liability & Tax Treatment of Agriculture Income.	

Note: - The Provisions of the Income Tax Act as applicable to assessment year at the Commencement of the academic year shall be studied for the annual and the supplementary Examination.

Suggested Reading:

1. Dr H C Meharotra and Dr S P Goyal- Income Tax Law &Accounts: Sahitya Bhavan Publications.
2. Dr.Vinod K Singhania: Taxman Publications.
3. T.N.Manoharan: Snow White.



B.Com I Year (II Semester)

Paper Code	Name of the Paper	Semester	Type	Marks	Credit
B.C.2.1	Financial Accounting	II	core	100	04
B.C.2.2	Business Statistics and Mathematics	II	core	100	04
B.C.2.3	Business Economics II	II	core	100	04
Disciplinary Course					
B.C.2.4	Modern Business Communication	II	core	100	04
Elective Any one					
B.C.2.5.1	Tally ERP 9.0	II	Elective	100	04
B.C.2.5.2	Modern Office Management	II	Elective	100	04
B.C.2.5.3	Advertising	II	Elective	100	04
B.C.2.5.4	Business Law II	II	Elective	100	04
B.C.2.5.5	UGC Vocational Course	II	Elective	100	04

Examination Pattern

Continuous Assessment

Core and Elective Subjects

1. Two Class Test of 10 Marks Each
2. Assignment / Tutorial / Seminar Presentation for 05 Marks in the Particular Subject

End of Semester Examination (ESE)

1. Question No. 1 Compulsory for 20 Marks on any Topic
2. Question No. 2 to Question No. 4 Alternative type Questions carrying 15 Marks each
2. Question No. 5 will be short Notes on any two of the given Four for 10 Marks



B.Com I Year (II Semester)

Financial Accounting

Paper No. BC 2.1

No. of Lectures	54
End of Semester (University Exam)	75 Marks
Continuous Assessment (CA)	25 Marks
Total	100 Marks
Total Credit	04

Learning Objective:

Objective of this course is to provide the skill of

- iv) **Recording**
- v) **Maintaining**
- vi) **And presenting the accounting and financial fact**

Utility :

- i) Student Can Understand the :
- iii) Accounting Knowledge
- iv) Application of Accounting in Business

Prerequisite :

Basic knowledge of Accountancy.

Unit 1:Consignment Accounts

- Meaning of Consignment
- Important Terms
- Accounting Records
- Valuation of Unsold Stock
- Numerical Problems

Unit 2 :Instalment System

- Meaning of Instalment Purchase System
- Numerical Problems on Installment System

Unit 3 :Accounts of Co-operative Societies

- Meaning of Co-operative Societies
- Preparation of Final Accounts of Co-operative Society

Unit 4 :Insurance Claims:

- Meaning, Types
- Calculation of Claims Under Loss of Stock Policy and Loss of Profit Policy only
- Application of Average Clause
- Numerical Problems

Unit 5 :Trust Accounting

- Meaning of Trust Accounting
- Certain Types of Funds includes
- Settlement Funds, Unearned income
- Advances for Costs, Judgment funds
- Third Party Funds (Can be placed into a trust account)



Reference Book:

- 1) Advanced Accountancy Jain, Narang
- 2) Advanced Accountancy R.C. Shukla
- 3) New Approach to Accountancy. H.R. Kotalwar
- 4) Advanced Financial Accounting Dr. S.S. Agarwal, Dr. P. Aboti



B.Com. I Year (II Semester)
Paper No. : BC 2.2
Business Statistics and Mathematics

No. of Lectures	54
End of Semester (University Exam)	75 Marks
Continuous Assessment (CA)	25 Marks
Total	100 Marks
Total Credit	04

Course Objective:

Objective of this course is to provide foundation of quantitative techniques applied in solving business problems.

Utility:

Student can understand the basic concept of mathematics and its operational use in various business operations.

Pre-requisite:

Basic knowledge of simple mathematics.

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Unit 1 Arithmetical Operations

- Ratios, Variations and Proportions
- Simple and Compound interest
- Commission, Brokerage, Discount
- Numerical Problems

Unit 2 Matrices:

- Meaning and Definition of Matrix
- Types of Matrices
- Addition & Subtraction of Matrices
- Multiplication of Matrices
- Numerical Problems.

Unit 3 Permutations and Combinations

- Meaning of Permutation
- Permutations when all the objects are distinct
- Permutations when all the objects are not distinct objects
- Permutation of things not all different
- Meaning of Combinations
- Numerical Problems

Unit 4 Probability

- Meaning and Definition of Probability
- Concepts – Events, Types of Events, Sample Space
- Classical Definition of Probability
- Addition and Multiplication Laws of Probability
- Simple Problems on Addition and Multiplication of Probability



Unit 5 Index Numbers

- Meaning, Definition and Need of Index Numbers
- Problems involved in construction of index numbers
- Price & Quantity Index Numbers
- Weighted Index Number
- Laspeyre's, Paasche's and Fisher's Ideal Index Numbers
- Numerical Examples.

Reference Books

1. S. P. Gupta – Statistical Methods – S. Chand Publication.
2. S. C. Gupta – Fundamentals of Statistics – Himalaya Publication.
3. N. G. Das and Dr. J. K. Das – Business Mathematics and Statistics – McGraw Hill Education.
4. R. S. Agrawal – Quantitative Techniques - S. Chand Publication.



B.Com. I Year (II semester)
Semester II (CBCS Pattern)
Business Economics II
Paper No.BC 2.3

No. of Lectures	54
End of Semester (University Exam)	75 Marks
Continuous Assessment (CA)	25 Marks
Total	100 Marks
Total Credit	04

Course Objective: The objective of this course is to acquaint the students with the market structures and theory of distribution is as applicable in business.

Pre-requisites: There is need of smart class room along with traditional class room and reading and library facility.

Course Utility: Students will be acquainted with the market structures and theory of distribution is as applicable in business.

Course Contents

Unit 1 Perfect Competition:	10
Meaning, Definition And Characteristics of Perfect Competition, Equilibrium of Firm, Price and Output Determination under Perfect Competition.	
Unit 2 Monopoly:	10
Meaning, Definition and Characteristics Of Monopoly, Price Discrimination, Comparison Between Monopoly And Perfect Competition	
Unit 3 Monopolistic Competition:	12
Meaning, Definition and Characteristics Of Monopolistic Competition, Equilibrium Of Firm, Differences Between Monopolistic Competition And Perfect Competition.	
Unit 4 Oligopoly:	10
Meaning, Definition and Characteristics of Oligopoly: Price Determination Under Oligopoly:	
Unit 5 Theory Of Distribution:	12
Concept Of Rent, Ricardian Theory Of Rent, Concept of Wages, Marginal Productivity Theory Of Wages, Concept of Interest, Loanable Funds Theory Of Interest, Concept of Profit, Uncertainty Bearing Theory Of Profit.	

Recommended Books:

- 1) Ahuja H.I.: Business Economics; S. Chand and Co. New Delhi.
- 2) D.M. Mithani, O.K. Murthy: Fundamentals of Business Economic Himalaya Publishing House, New Delhi.
- 3) G.N. Zambre : Business Economics: Pimplapure publishers Nagpur.
- 4) V.G. Mankar : Business Economics. Himalaya Publishing house, Bombay, Delhi, Nagpur.



B.Com. I Year (II Semester)
Paper No. BC 2.4
Modern Business Communication

No. of Lectures	54
End of Semester (University Exam)	75 Marks
Continuous Assessment (CA)	25 Marks
Total	100 Marks
Total Credit	04

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Learning objectives

- 1 To Develop Communication Skills of Students
- 2 To help in personality development
- 3 To improve speaking, learning, and interview skills of students.

Utility: - Adequate Knowledge about good communication in business

Prerequisite: - Major resources of communication process provide to the students

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Unit I Application for employment

Contents of application for the employment points to be considered while drafting an application, types of application, the write resume, Application on prescribed format, Application format, personal record sheet.

Unit: II Communication Skills

Listening Skill: Principles of Effective listening, factors affecting listening skills. Interviewing Skills - Appearing an interview, conducting interviews. Speaking skills - Principles of effective speaking.

Unit III Business Letters

Meaning of business letters, types, importance, Principles of good business letters, function of business letters, Physical appearance of a business letter.

Unit: IV Writing Skills

Drafting of business letters, Sales letter, office memorandum, Enquiry letter, Request letter.

Unit V Import Export Trade Correspondence

Procedure of Import business, prices in foreign business, Export trade correspondence, procedure of export business.

Reference Books

1. Business Communication – D.D.Singhal – Ramesh Book Depo. Jaipur
2. Business Communication – Varinder Kumar- Kalyani Publication Ludhiyana
3. Communication Skill- DR P L Pardeshi –Nirali Publication Pune
4. Essential of Business Communication – Rajendrapal – sultan chand& son
New Delhi
5. Business Communication – Dr. Chaya Sukhdane, Dr.Shrinivas Joshi
5. Business Communication – Dr. Chaya Sukhdane, Dr.Shrinivas Joshi



Elective Subject any one of the Following
B.Com. I Year (II Semester)
Paper No. : BC 2.5.1
Tally ERP 9.0

No. of Lectures	54
End of Semester (University Exam)	75 Marks
Continuous Assessment (CA)	25 Marks
Total	100 Marks
Total Credit	04

Course Objectives

- i) To develop awareness about computerized accounting
- ii) To know the recent advances in the computerized accounting
- iii) To develop knowledge about Tally
- iv) To create ability to work with the Tally

Utility: - Adequate Knowledge about Computerize Accountancy and Tally

Prerequisite: - basic knowledge of the computer & Tally software

Unit- I Introduction of Computerized accounting and Tally

Introduction, Meaning, Definition of computerized accounting, importance and features computerized accountancy, Importance of Using tally, advantages of Tally, features of Tally.

Unit- II Starting with Tally

Starting with tally, basic features of tally, Company creation for the sole trader, partnership, no trading organization. and Accounts creation in tally.

Unit- III Accounting with Tally

Recording of transactions in tally. All subsidiary Books with suitable illustration

Unit- IV Modification / alteration of records in Tally

Unit V Report generation (procedure)

Practical

- Create Company with TALLY
- Create account and groups of account in tally
- accounting with transaction in tally
- prepare trial balance
- generate the final accounts and reports

Reference Books :

- V. Rajaraman (PHI) Fundamentals of computer- Prentice Hall of India Pvt Ltd Delhi.
- Sander D. Megraw Hill- Computer Concepts and Application
- Introduction of Computer – Prof. Narayan Thorat – VidhyPrakashan Nagpur
- Computer and commerce – Roher Hunt & John Shelley – Prentic Hall of India
- Computer Network – Andrew S.Tanen
- Implementing Tally 9 – A K Nadhani – BPB Publication- New Delhi
- Information Technology and its application in business- Dr. J. J. Ahirrao& Dr. P. N. Totala-Kailash Publication



B.Com. I Year (II Semester)

Paper No. BC2.5.2 Modern Office Management

No. of Lectures	54
End of Semester (University Exam)	75 Marks
Continuous Assessment (CA)	25 Marks
Total	100 Marks
Total Credit	04

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Objectives:

1. To make Students Aware about Group Insurance
2. To familiarize Students about Online Office Activities
3. To Impart the Knowledge of Office Records & Filing Systems among the Students.
4. To enhance the knowledge about Statistical Practices among the Students.

Learning outcomes: - 1 Students can understand the practices of office administration

2 The students can learn to maintaining the official files and documentation

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Unit I :Office report and Office Cost deduction and savings:

Meaning of Office report, Types, Qualities of a report, guiding principles. Forms of report, Presentation of report. Meaning of cost reduction. Types of wasteful expenditure. Technique of cost reduction, budgetary control, Cost contra.

UNIT – II Group Insurance

Group Life Insurance, Group Annuities, Franchise Life Insurance, Group Insurance In India, ESI Act [Employees' State Insurance Act]

UNIT - III Online Office

Office System, Electronic Data Processing, Word Processing, Letters, Memos And Reports, Mail & Information Distribution, Recruitment Processing.

UNIT – IV Office Records and Filing Management

Office Records- Principles Of Records Keeping, Kinds Of Records, Filing, Definition Of Filing, Essentials Of An Ideal Filing System, New Methods Of Filing.

UNIT –V Statistical Data

Need For Statistical Data In The Office, Sources Of Data, Limitation Of Data, Methods Of Collecting Data, Tabulation Of Data, Presentation Of Data.

Recommended Books:-

1. 'Office Organisation & Management', By S.P. Arora, Vikas Publishing House Pvt. Ltd. New Delhi.
2. 'Office Management', By R.K. Chopda, Himalaya Publishing House, Mumbai.



3. 'Office Organisation and Management', By M.E. Thukaram Rao, Atlantic Publishers and Distributors, New Delhi.
4. 'Office Management and Control' By George R. Terry and John J. Stallard, Richard D. Irwin, INC., Homewood, Illinois, D.B. Taraporevala Sons & Co. Pvt. Ltd. 210, Dr. Dadabhai Navroji Road, Mumbai 400 001
5. 'Office Management' Singh, Batra and Kalra, Kalyani Publishers, New Delhi.
6. 'Office Management and Commercial Correspondence' By R.C. Bhatiya, Sterling Publishers Pvt. Ltd. New Delhi.

**B.Com. I Year (II Semester)****Paper No. BC2.5.3****Advertising**

No. of Lectures	54
End of Semester (University Exam)	75 Marks
Continuous Assessment (CA)	25 Marks
Total	100 Marks
Total Credit	04

Objectives:

1. To male Students Aware about Advertising
2. To familiarize Students about Online advertising activity
3. To Impart the Knowledge of advertising techniques among theStudents.
4. To enhance the knowledge about accounting budgets of advertising

Learning outcomes: - 1 students can understand the practices of advertising

2 the students can learn to maintaining the advertising techniques

Unit- Introduction of Advertising

Concept and Importance of Advertising, Advertising Objectives and advertising function, types of advertising, commercial and non-commercial advertising

Unit -II Advertising Media

Meaning and concept of Media, different types of Media, Media planning, Impact of advertising agencies role, relationship with clients.

Unit- III Advertising Budget

Advertising budget, factors affecting to advertising expenditure, Ethics and code of conduct in advertising.

Unit- IV Advertising Agencies

Classified and display advertising, comparative advertising, Regularity agencies in advertising (AAI, ASCI)

Unit -V Advertising Techniques

Advertising message, preparation of advertising message, elements of advertising, copy, broadcast copy, copy for direct mail

Recommended Books:-

1. Advertising Management-Concept and causes- Mohan, Manendra- TMT Publication
2. Advertising, Sales and Promotion Management- Chunawla – Himalaya Publication house New Delhi
3. Foundation of advertising Theories and Practises –Chawala S.A, Sethia K.C, - Himalaya Publication

**B. Com. First Year (II Semester)****Paper No. B.C.2.5.4****Business Law II**

No. of Lectures	54
End of Semester (University Exam)	75 Marks
Continuous Assessment (CA)	25 Marks
Total	100 Marks
Total Credit	04

Objectives:

To make students aware about various basic laws applicable to a business concerns

Unit I: Laws of Insurance:-**(No. of lectures 10)**

Difference between general insurance and life insurance, insurable interest, types of policies of life insurance, distinction between assignment and nomination; contract of fire insurance, average clause, types of fire policies, maritime perils as per marine insurance, insurable value under marine insurance, types of marine policies

Unit II: Laws for Carriage of Goods:-**(No. of lectures 10)**

Various acts applicable to carriage of goods, carriage by land – classification of carriers, rights and duties of common carriers, rights, duties and liabilities of common carrier, responsibility of railway as carriers, implied conditions in a contract for carriage of goods, bill of lading and its contents, its types, bill of lading as a negotiable instrument, air way bill and its contents, liability of air carrier;

Unit III:- Sale of Goods Act – 1930**(No. of lectures 12)**

Definition of Contract of sale, goods, buyer, seller, essentials of contract of sale, difference between sale and agreement to sale, difference between sale and hire-purchase, classification of goods, conditions and warranties, F. A. S. contracts, F. O. B. contracts, C. I. F. contracts, Ex-ship contracts, rights and duties of buyer, rights of unpaid seller

Unit IV:- Consumer Protection Act – 1986**(No. of lectures 12)**

Definition of complaint, complainant, consumer, consumer dispute, trader, unfair trade practice, need of consumer protection, Scope of Consumer Protection Act, objectives of Consumer Protection Act, consumer protection councils and their respective objects, three tier redressal system under the act and their jurisdictions and composition i. e. district forum, state commission and national forum

Unit V:- Insolvency and Bankruptcy Code- 2016**(No. of lectures 12)**

Applicability of the code, definition of financial creditor, financial debt, operational creditor, operational debt, person, corporate insolvency resolution process, corporate liquidation process, institutional infrastructure under the Code for resolution process, role of insolvency professional

References:



1. Elements of Mercantile Law by N. D. Kapoor, Sultan Chand & Sons, New Delhi
2. Business Law for Management, K. R. Bhulchandani, Himalaya Publishing House, Mumbai
3. Business Regulatory Framework, G. K. Varshney, Sahitya Bhavan, Agra
4. Business Laws, S. N. Maheshwari, Himalaya Publishing House, Mumbai
5. Business Regulatory Framework, Sheth, Kulkarni, Puranik, Kulkarni, Diamond Publications, Pune
6. Various Bare Acts
7. Web-sites of various Government Regulators

**B. Com. First Year (II Semester)****Paper No. BC.2.5.5****UGC Vocational Course-Tax Procedure & Practice****Paper: TPP-III****(Goods and Service Tax-II)**

(This Paper is Alternative for Second Language-II)

No. of Lectures	54
End of Semester (University Exam)	75 Marks
Continuous Assessment (CA)	25 Marks
Total	100 Marks
Total Credit	04

Course Objective: The Objective of the course is to provide the candidates with sound Knowledge of the important provisions of the GST Act and their applications in practice.

Pre-Requisites: There is need of smart class room along with traditional class room and reading and library facility.

Course Utility: Students will be acquainted with sound knowledge of the important provisions of the GST Act and their applications in practice.

Course Contents

Unit 1	Composition Scheme: Overview of Scheme, Turnover Limit for Levy, Condition for Composition, Validity for Composition.	10
Unit 2	Reverse Charge Mechanism: Meaning of Reverse Charge, Services and Persons under Reverse Charge, General Provisions applicable to reverse charge, Tax under Reverse Charge.	12
Unit.3 .	Input Tax Credit : Condition for ITC, Utilization of input tax credit, Input tax credit when exempted as well as taxable supplies made Input Service Distributor [ISD]	12
Unit 4.	Returns Under GST: Monthly, Quarterly, and Annual Return.	10
Unit.5.	Computation Of Tax Liability: Input tax credit avilment, computation of ITC and Tax Liability under GST.	10

References:

- 1) Taxmann – S.S. Gupta
- 2) Taxation Books on GST – Raj K. Agrawal
- 3) Laymen’s Guide to GST - CA Deeraj Sharma
- 4) Bharat’s GST Law – CA kashis Gupta
- 5) Bangar’s Beginner Guide to GST – Dr. Vandana Bangar



**B.Com. First Year Revised Syllabus (w.e.f.2019-20)
Semester II (CBCS Pattern)**

Paper No. B.C.2.5.5

UGC Vocational Course-Tax Procedure & Practice

Paper: TPP-IV

(Indian Tax System & Income Tax Law-II)

(This Paper is Alternative for Elective)

No. of Lectures	54
End of Semester (University Exam)	75 Marks
Continuous Assessment (CA)	25 Marks
Total	100 Marks
Total Credit	04

Course Objective: The objective of the course is to provide the candidates with sound knowledge of the important provisions of the Income Tax Law and their applications in practices.

Pre-Requisites: There is need of smart class room along with traditional class room and reading and library facility.

Course Utility: Students will be acquainted with sound knowledge of the important provisions of the Income Tax Law and their applications in practice.

Course Contents

Unit 01	Direct Tax and Indirect Tax:	12
	Concept of Direct Tax, Advantages & Disadvantages of Direct Tax. Concept of Indirect Tax, Advantages & Disadvantages of Indirect Tax	
Unit 02	Income from Business:	10
	Computation of income from Profession, Allowable incomes & allowable Expenses.	
Unit 03	Income from Profession:	10
	Computation of income from Profession, Allowable incomes & allowable Expenses.	
Unit 04	Income from Other Sources:	10
	Computation of Income from Other Sources, Taxable & non-taxable incomes.	
Unit 05	Computation of Total Income with Deductions:	12
	Computation of Total Income: considering Deduction's U/s 80C contribution to PPF, & payment of LIC Premium., 80CC Contribution to certain Pension Fund, 80CCD Contribution to certain Pension Scheme.	

Note: - The Provisions of the Income Tax Act as applicable to assessment year at the Commencement of the academic year shall be studied for the annual and the supplementary Examination.

Suggested Reading:

1. Dr H C Meharotra and Dr S P Goyal- Income Tax Law &Accounts: Sahitya Bhavan Publications.
2. Dr.Vinod K Singhania: Taxman publications.
3. T.N.Manoharan: Snow White.

Swami Ramanand Teerth Marathwada University, Nanded.

EXAMINATION PROGRAMME

B.Com. I, II year (Theory + MCQ Pattern)(CBCS) & III year (Theory Pattern) (CBCS/CGPA)

(Regular & Backlog) Examination Winter – 2019

The Examination shall be held on days & dates mentioned below at all Centres simultaneously.

Timing	
II & V Semester : 10:00 am to 12:00 noon	IV Semester : 02:00 pm to 04:00 pm
I & VI Semester : 10:00 am to 12:00 noon	III Semester : 02:00 pm to 04:00 pm

Sr.No.	Subject & Paper No.	Sr.No.	Subject & Paper No.
THURSDAY 10-10-2019 DAY: 01			
	B.Com. II Semester (B-1) English (Compulsory) B.Com. V Semester (1001) Environmental Study (Compulsory)	215 216 217 218	B.Com. IV Semester SECOND LANGUAGE (B-3) Hindi (B-4) Marathi (B-5) Urdu (Old) (B-6) Urdu (New.) (B-7) Sanskrit (B-8) Pali (B-9) Additional English (B-10) Kannada Foreign Trade – VII (CBCS) OR Tax Producer and Practice – VII (CBCS) OR Computer Application – VII (CBCS) OR Banking & Insurance - VII (CBCS)
FRIDAY 11-10-2019 DAY: 02			
101 102 103 104	B.Com. I Semester SECOND LANGUAGES (B-11) Hindi (Old) (B-12) Marathi (Old) (B-13) Urdu (Old) (B-14) Sanskrit (Old) (B-15) Pali (Old) (B-16) Additional English (Old) (B-17) Kannada (Old) Foreign Trade-I (Th+MCQ) (Basics of Foreign Trade) OR Tax Producer and Practice – I (Th+MCQ) (CST & MVAT Act-I) OR Computer Application – I (Th+MCQ) (Introduction to DOS & Windows) OR Banking & Insurance-I (Th+MCQ) (Fundamentals of Banking) -----		B.Com. III Semester (B-32) English (Compulsory) (Th+MCQ) (A-9) English (Compulsory) (New)

	(A-2) Hindi (New) (A-3) Marathi (New) (A-4) Urdu (New) (A-5) Sanskrit (New) (A-6) Pali (New) (A-7) Additional English (New) (A-8) Kannada (New)		
151	Foreign Trade-I (New) OR		
152	Tax Producer and Practice – I (NEW) (Goods and Service Tax-I)		
153	Computer Application – I (NEW) OR		
154	Banking & Insurance-I (NEW)		
	B.Com. VI Semester		
375	Advanced Accounting & Auditing – II (CGPA)		
325	Advanced Accounting – II (CBCS)		
SATURDAY 12-10-2019		DAY: 03	
	B.Com. II Semester SECOND LANGUAGE (B-33) Hindi (B-34) Marathi (B-35) Urdu (B-36) Sanskrit (B-37) Pali (B-38) Additional English (B-39) Kannada		B.Com. IV Semester (B-54) English (Compulsory)
117	Foreign Trade – III OR		
118	Tax Producer and Practice -III OR		
119	Computer Application – III OR		
120	Banking & Insurance – III		
	B.Com. V Semester		
351	Advanced Accounting & Auditing – I (CGPA)		
301	Advanced Accounting-I (CBCS)		
MONDAY 14-10-2019		DAY: 04	
	B.Com. I Semester (B-55) English (Compulsory) (Th+MCQ) (A-22) English (Compulsory) (New)		B.Com. III Semester SECOND LANGUAGE (B-70) Hindi (B-71) Marathi (B-72) Urdu (Old) (B-73) Urdu (New.)
	B.Com. VI Semester		
376	Management Accounting – II (CGPA)		

326	Management Accounting – II (CBCS)		(B-74) Sanskrit (B-75) Pali (B-76) Additional English (B-77) Kannada 201 Foreign Trade – V (Th+MCQ) OR 202 Tax Producer and Practice – V (Th+MCQ) OR 203 Computer Application – V (Th+MCQ) OR 204 Banking & Insurance – V (Th+MCQ) ----- (A-23) Hindi (NEW) (A-24) Marathi (NEW) (A-25) Urdu (Old) (NEW) (A-26) Urdu (New.) (NEW) (A-27) Sanskrit (NEW) (A-28) Pali (NEW) (A-29) Additional English (NEW) (A-30) Kannada (NEW) 251 Foreign Trade – V (CBCS) OR (NEW) 252 Tax Producer and Practice – V (CBCS) (NEW) OR 253 Computer Application – V (CBCS) (NEW) OR 254 Banking & Insurance – V (CBCS) (NEW)
TUESDAY 15-10-2019		DAY: 05	
121	B.Com. II Semester Financial Accounting – II	219	B.Com. IV Semester Advanced Corporate Accounting (CBCS)
352	B.Com. V Semester Management Accounting – I (CGPA)		
302	Management Accounting-I (CBCS)		
WEDNESDAY 16-10-2019		DAY: 06	
105	B.Com. I Semester Financial Accounting –I (Th+MCQ)	205	B.Com. III Semester New Trends Corporate Accounting (CBCS) (Th+MCQ)
155	Fundamentals of Financial Accounting (New)		
377	B.Com. VI Semester Economic Development & Planning in India – II (CGPA)	255	New Trends Corporate Accounting (CBCS) (New)
327	Auditing –II (CBCS)		
THURSDAY 17-10-2019		DAY: 07	
122	B.Com. II Semester Fundamentals of Stat & Maths-II	223	B.Com. IV Semester Advanced Cost Accounting (CBCS)
353	B.Com. V Semester Economic Development & Planning in India – I (CGPA)		
303	Auditing-I (CBCS)		

FRIDAY 18-10-2019		DAY: 08	
106	B.Com. I Semester Fundamentals of Statistics & Maths -I (Th+MCQ)	208	B.Com. III Semester Cost Accounting – I (CBCS) (Th+MCQ)
156	Business Statistics (New)	258	Cost Accounting – I (CBCS) (New)
378	B.Com. VI Semester Business Regulatory Framework – II (CGPA)		
342	Indian Economy-II (CBCS) OR		
343	Rural Management-II (CBCS) OR		
344	Labour Laws & Industrial Laws-II (CBCS) OR		
345	Travel & Tourism-II (CBCS) OR		
346	The Right to Information Act-2005-II (CBCS)		
SATURDAY 19-10-2019		DAY: 09	
123	B.Com. II Semester Business Communications – II	221	B.Com. IV Semester Risk Management (CBCS)
354	B.Com. V Semester Business Regulatory Framework – I (CGPA)		
318	Indian Economy-I (CBCS) OR		
319	Rural Management-I (CBCS) OR		
320	Labour Laws & Industrial Laws-I (CBCS) OR		
321	Travel & Tourism-I (CBCS) OR		
322	The Right to Information Act-2005-I (CBCS)		
MONDAY 21-10-2019		DAY: 10	
107	B.Com. I Semester Business Communication-I (Th+MCQ)	207	B.Com. III Semester Principles of Business Management and Practice (CBCS) (Th+MCQ)
157	Fundamentals of Business Communication (New)	257	Principles of Business Management and Practice (CBCS) (New)
379	B.Com. VI Semester Income Tax Law & Practice - II (CCGPA) OR		
380	Human Resource Management - II (CGPA) OR		
381	E-Commerce (Legal Framework & Technology) –III (CGPA) OR		
382	E-Banking & Accounting - II (CGPA) OR		
383	Co-Operation – II (CGPA) OR		

384	Travel – II (CGPA) OR		
385	Foreign Trade – XI (Export Documentation) (CGPA)OR		
386	Tax Procedure & Practice-XI (Income Tax Producer and Practice – II) (CGPA) OR		
387	Computer Application – XI (Web Page Designing) (CGPA) OR		
388	Banking & Insurance –XI (CGPA)		
328	Income Tax Law & Practice - II (CBCS) OR		
329	Human Resource Management - II (CBCS) OR		
330	E-Banking & Accounting - II (CBCS) OR		
331	Tax Procedure & Practice –XI (CBCS) (Income Tax Producer and Practice – II) OR		
332	Foreign Trade – XI (Export Documentation) (CBCS) OR		
333	Computer Application – XI (Web Page Designing) (CBCS)		
334	Banking & Insurance –XI (CBCS)		

TUESDAY 22-10-2019

DAY: 11

	B.Com. II Semester		B.Com. IV Semester
124	Business Economics – II	222	Advanced Planning in India (CBCS)
	B.Com. V Semester		
355	Income Tax Law & Practice - I (CGPA) OR		
356	Human Resource Management - I (CGPA) OR		
357	E-Commerce (Fundamentals & Applications) –I (CGPA) OR		
358	E-Banking & Accounting - I (CGPA) OR		
359	Co-Operation – I (CGPA) OR		
360	Travel – I (CGPA) OR		
361	Foreign Trade – IX (Export Procedure) (CGPA) OR		
362	Tax Procedure & practice IX (Income Tax procedure& Practice – I) (CGPA) OR		
363	Computer Application – IX (Programming in V.B 6.0) (CGPA) OR		
364	Banking & Insurance -IX (CGPA)		
304	Income Tax Law & Practice - I (CBCS) OR		
305	Human Resource Management - I (CBCS) OR		
306	E-Banking & Accounting - I (CBCS) OR		
307	Tax Procedure & practice IX		

308	(Income Tax procedure & Practice – I) (CBCS) OR		
309	Foreign Trade – IX (Export Procedure)-IX		
310	Computer Application – IX (Visual Basic) (CBCS) OR		
	Banking & Insurance -IX (Financial Markets and Institution in India (CBCS)		
WEDNESDAY 23-10-2019 DAY: 12			
108	B.Com. I Semester Business Economics-I (Th+MCQ)	209	B.Com. III Semester Banking & Finance (CBCS) (Th+MCQ)
158	Business Economics (New)	259	Banking & Finance (CBCS) (New)
	B.Com. VI Semester		
389	M-VAT and Service Tax - II OR		
390	Marketing Management - II OR		
391	E-Commerce(Marketing & Internet Advertising) IV OR		
392	E-Insurance & Accounting – II OR		
393	Rural Development – II OR		
394	Tourism – II OR		
395	Foreign Trade –XII (International Transportation) OR		
396	Tax Procedure & Practice XII (M-Vat and Service Tax Procedure & Practice-II)		
397	Computer Application – XII (E commerce)		
398	Banking & Insurance –XII		
335	Goods and Service Tax - II (CBCS) OR		
336	Marketing Management-II (CBCS) OR		
337	E-Insurance and Accounting-II (CBCS) OR		
338	Tax Procedure & Practice –XII (CBCS) (Income Tax Producer and Practice – II) OR		
339	Foreign Trade – XII (Export Documentation) (CBCS) OR		
340	Computer Application – XII (Web Page Designing) (CBCS)		
341	Banking & Insurance –XII (CBCS)		
THURSDAY 24-10-2019 DAY: 13			
125	B.Com. II Semester Computer for Business & Tally -II OR	224	B.Com. IV Semester Income Tax - II (CBCS)
126	Foreign Trade – IV OR		OR
127	Tax Producer and Practice – IV OR	225	Foreign Trade – VIII (CBCS)
128	Computer Application – IV OR		OR
129	Banking & Insurance – IV	226	Tax Producer and Practice – VIII (CBCS)

130	Entrepreneurship-II OR		OR
131	Salesmanship-II OR	227	Computer Application – VIII (CBCS)
132	Office Management-II		OR
	B.Com. V Semester	228	Banking & Insurance - VIII (CBCS)
365	M-VAT and Service Tax - I (CGPA) OR		
366	Marketing Management – I (CGPA) OR		
367	E-Commerce(Business to Consumers)II (CGPA) OR		
368	E-Insurance & Accounting - I (CGPA) OR		
369	Rural Development – I (CGPA) OR		
370	Tourism – I (CGPA) OR		
371	Foreign Trade – (Marketing Logistics) – X (CGPA) OR		
372	Tax Procedure & Practice X (M Vat & Service Tax Procedure & Practice-I) (CGPA) OR		
373	Computer Application- X (CGPA) (Computer networking &Internet) OR		
374	Banking & Insurance -X (CGPA)		
311	Goods & Service Tax - I (CBCS) OR		
312	Marketing Management - I (CBCS) OR		
313	E-Insurance Accounting - I (CBCS) OR		
314	Tax Procedure & practice X (GSTprocedure& Practice – I) (CBCS) OR		
315	Foreign Trade – (Marketing Logistics)-X (CBCS)		
316	Computer Application – X (E- Commerce & Cyber Security) X (CBCS) OR		
317	Banking & Insurance -X (Carrier Avenues in Insurance) (CBCS)		
FRIDAY 25-10-2019 DAY: 14			
	B.Com. I Semester		B.Com. III Semester
109	Computer For Business & Tally -I (Th+MCQ) OR	210	Income Tax – I (CBCS) (Th+MCQ) OR
110	Foreign Trade – II (Th+MCQ) (International HRM) OR	211	Foreign Trade – VI (CBCS) (Th+MCQ) OR
111	Tax Producer and Practice – II (Th+MCQ) (Indian Tax System & Income Tax Law) OR	212	Tax Producer and Practice – VI (CBCS) (Th+MCQ) OR
112	Computer Application – II (Office Automation) (Th+MCQ) OR	213	Computer Application – VI (CBCS) (Th+MCQ) OR
113	Banking & Insurance – II (Th+MCQ) (Fundamentals of Insurance)OR	214	Banking & Insurance – VI (CBCS) (Th+MCQ)
114	Entrepreneurship-I (Th+MCQ) OR	260	Income Tax – I (CBCS) (New) OR
115	Salesmanship-I (Th+MCQ) OR	261	Foreign Trade – VI (CBCS) (New)OR
116	Office Management-I (Th+MCQ)		

159	Computer for Business (New) OR	262	Tax Producer and Practice – VI (CBCS) (New) OR
160	Office Management (New) OR	263	Computer Application – VI (CBCS) (New) OR
161	Fundamentals of Salesmanship (New) OR	264	Banking & Insurance – VI (New) (CBCS)
162	Business Law-I (New) OR		
163	Foreign Trade-II (New) OR		
164	Tax Producer and Practice – II (New) (Indian Tax System & Income Tax Law-I)		
165	Computer Application – II (NEW) OR		
166	Banking & Insurance-II (NEW)		
WEDNESDAY 20-11-2019 DAY: 15			
		220	B.Com. IV Semester Business Law (CBCS)
THURSDAY 21-11-2019 DAY: 16			
		206	B.Com. III Semester Corporate Law (CBCS) (Th+MCQ)
		256	Corporate Law (CBCS) (New)

संचालक
परीक्षा व मुल्यमापन मंडळ

॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड
“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)
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संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे CBCS Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ३० एप्रिल २०१९ रोजी संपन्न झालेल्या ४३व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.५/४३-२०१९ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्यात येत आहेत.

- १) बी.ए.—प्रथम वर्ष—इंग्रजी (अनिवार्य, अतिरिक्त (द्वितीय भाषा), फंक्शनल इंग्रजी, ऐच्छिक)
- २) बी.ए.—प्रथम वर्ष—हिंदी (द्वितीय भाषा, ऐच्छिक)
- ३) बी.ए.—प्रथम वर्ष—मराठी (द्वितीय भाषा, ऐच्छिक)
- ४) बी.ए.—प्रथम वर्ष—पाली (द्वितीय भाषा, ऐच्छिक)
- ५) बी.ए.—प्रथम वर्ष—संस्कृत (द्वितीय भाषा, ऐच्छिक)
- ६) बी.ए.—प्रथम वर्ष—उर्दू (द्वितीय भाषा, ऐच्छिक)
- ७) बी.ए.—प्रथम वर्ष—अर्थशास्त्र
- ८) बी.ए.—प्रथम वर्ष—भूगोल
- ९) बी.ए.—प्रथम वर्ष—इतिहास
- १०) बी.ए.—प्रथम वर्ष—सैनिकशास्त्र
- ११) बी.ए.—प्रथम वर्ष—तत्त्वज्ञान
- १२) बी.ए.—प्रथम वर्ष—राज्यशास्त्र
- १३) बी.ए.—प्रथम वर्ष—मानसशास्त्र
- १४) बी.ए.—प्रथम वर्ष—लोकप्रशासन
- १५) बी.ए.—प्रथम वर्ष—समाजशास्त्र
- १६) बी.ए.—प्रथम वर्ष—अॅडमिनिस्ट्रेटिव्ह सर्व्हिस

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,
विष्णुपुरी, नांदेड — ४३१ ६०६.
जा.क्र.: शैक्षणिक—०१/परिपत्रक/पदवी—सीबीसीएस अभ्यासक्रम/
२०१९-२०/६६
दिनांक : १७.०६.२०१९.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

स्वाक्षरित /—
उपकुलसचिव
शैक्षणिक (१-अभ्यासमंडळ) विभाग

Swami Ramanand Teerth Marathwada University, Nanded
Undergraduate Syllabus (C.B.C.S. Pattern) w.e.f. 2019-20

B.A./B.Sc./B.Com./B.S.W. First Year
Compulsory/Additional (S.L.)/Functional/Optional English Syllabus
w.e.f. 2019-20

Compulsory English

Semester	AECC Paper No.	Name of the course	Lectures per week	Total periods	C.I.E.	E.S.E.	Total marks	Credits
I	1	AECC English Communication	05	55	35	40	75	03
II	2	AECC English Communication	05	55	35	40	75	03

Additional (S.L.) English

Semester	Additional (S.L.) Paper No.	Name of the course	Lectures per week	Total periods	C.I.E.	E.S.E.	Total marks	Credits
I	1	Additional English	04	45	35	40	75	03
II	2	Additional English	04	45	35	40	75	03

Functional English

Semester	Functional English Paper No.	Name of the course	Lectures per week	Total periods	C.I.E.	E.S.E.	Total marks	Credits
I	1	Introduction to Phonetics	04	55	35	40	75	03
I	2	Communicative Grammar	04	55	35	40	75	03
II	3	Developing Writing Skills	04	55	35	40	75	03
II	4	Developing Conversational Skills	04	55	35	40	75	03

Optional English

Semester	Paper No.	Name of the course	Lectures per week	Total periods	C.I.E.	E.S.E.	Total marks	Credits
I	1	Understanding Prose Fiction	04	45	35	40	75	03
	2	Understanding Poetry	04	45	35	40	75	03
II	3	Understanding Non-fictional Prose	04	45	35	40	75	03
	4	Understanding Drama	04	45	35	40	75	03

Compulsory English

Name of the course:

(Ability Enhancement Compulsory Course): **English Communication**

B.A./B.Sc./B.Com./B.S.W. First Year (Semesters I and II)

Objectives:

- 1) To enable the learners to communicate in English through close reading of select literary texts.
- 2) To develop the skills of speaking, listening, reading, writing, viewing and representing by conducting classroom activities prescribed in the curriculum.
- 3) To enable the learners to make the use of English language for shaping and making meaning according to purpose, audience and the context.
- 4) To train the learners think in ways that are imaginative, creative, interpretive and critical.
- 5) To help the learners for acquiring ways of expressing themselves and their relationships with others and their world.
- 6) To induce the learners for reflecting on their learning through their study of English.

Intended Outcomes:

- 1) Through responding to and composing a wide range of texts, the learners will begin to use the English language in the best possible manner.
- 2) Through the close study of texts, students will develop knowledge, understanding and skills in order to communicate effectively in English.
- 3) Learners will value and appreciate the importance of the English language as a key to learning.
- 4) Learners will gain the personal enrichment from study of literary pieces in English.
- 5) Learners will acquire ability to communicate through oral and written texts.

Syllabus:

Unit No.	Content / Title
I- Prose	A) <i>I have Three Visions for India</i> : Dr. A.P.J. Abdul Kalam
	B) <i>Learning from the West</i> : N.R.Narayana Murthy
II- Short Story	A) <i>A Living God</i> : Lafcadio Hearn
	B) <i>Search for a Stranger</i> : Gordon Livingston
III- Poetry	A) <i>My Mistress' Eyes are Nothing Like the Sun</i> : William Shakespeare
	B) <i>Bright Star, Would I Were Steadfast as Thou Art</i> : John Keats
IV- Grammar	A) Language Learning: Word Classes
	B) Communication Skills: Email Correspondence, Job Application, C.V.
V- Essay	A) <i>The Annihilation of Caste</i> : Dr. B. R. Ambedkar
	B) <i>On the Rule of the Road – A. G. Gardiner</i>
VI- Short Story	A) <i>An Astrologer's Day</i> : R.K. Narayan
	B) <i>The Kid</i> : Charles Chaplin
VII- Poetry	A) <i>This Dog</i> : Rabindranath Tagore
	B) <i>A Poison Tree</i> : William Blake
VIII- Grammar	A) Language Learning: Tenses
	B) Communication Skills: Report Writing, Composing News Item

Prescribed Text: **Horizon**, AECC English Text Book (Macmillan Education, India)

Continuous Internal Evaluation: 35 Marks

Two class tests of 10 marks each + Home Assignment/Presentation/Seminar/Project of 15 marks = 35 marks

End Semester Examination: 40 marks

Question Paper Pattern (Semester I)

Question No.	Content	Marks
1	Descriptive answer type questions with internal choice (Based on Units I,II,III)	15
2	Descriptive answer type questions with internal choice (Based on Units I,II, III)	15
3	Questions with internal choice (Based on Unit IV- (A) 05 marks & (B) 05 marks)	10

Question Paper Pattern (Semester II)

Question No.	Content	Marks
1	Descriptive answer type questions with internal choice (based on Units V, VI, VII)	15
2	Descriptive answer type questions with internal choice (based on Units V, VI, VII)	15
3	Questions with internal choice (Based on Unit VIII- (A) 05 marks & (B) 05 marks)	10

Additional English

Objectives:

1. To acquaint the second language learners with the finest English short stories from various countries
2. To acquaint the second language learners with the instructive, informative, scientific and entertaining prose pieces.
3. To enrich the basic language skills of the learners

Intended Outcomes:

1. Learners will be able to understand the nuances of English language through the close reading of literary texts.
2. Common errors in the use of English will be avoided.
3. A diversified experience through English prose writings will enable the learners to comprehend the use of English in various contextual situations.

Semester I

Unit No.	Contents	Marks
I	1) <i>The Strange Case of Dr. Jekyll and Mr. Hyde</i> : R.L. Stevenson 2) <i>Of Mice and Men</i> : John Steinbeck	15
II	1) <i>I am Legend</i> : Richard Matheson 2) <i>A Christmas Carol</i> : Charles Dickens	15
III	Remedial Grammar: Common Errors in English Usage	10

Semester II

Unit No.	Contents	Marks
IV	1) <i>A Clockwork Orange</i> : Anthony Burgess 2) <i>The Gambler</i> : Fyodor Dostoevsky	15
V	1) <i>Fahrenheit 451</i> : Ray Bradbury 2) <i>Anthem</i> : Ayn Rand	15
VI	Remedial Grammar: Common Errors in English Usage	10

The textbook: *Panorama*-to be published as E-book with ISBN by the SRTM

University Continuous Internal Evaluation: 35 Marks

Two class tests of 10 marks each + Home Assignment/Presentation/Seminar/Project of 15 marks = 35 marks

End Semester Examination: 40 marks

Question Paper Pattern (Semester I)

Question No.	Content	Marks
1	Descriptive answer type question with internal choice (based on Unit I)	15
2	Descriptive answer type question with internal choice (based on Unit II)	15
3	Question with internal choice (based on Unit III)	10

Question Paper Pattern (Semester II)

Question No.	Content	Marks
1	Descriptive answer type question with internal choice (based on Unit IV)	15
2	Descriptive answer type question with internal choice (based on Unit V)	15
3	Question with internal choice (based on Unit VI)	10

Functional English

Semester-I Paper: I Introduction to Phonetics

Objectives

1. To make the learners familiar with English Letters and Sounds through listening.
2. To make learners familiar with the Production of Speech.
3. To enable the learners to achieve accuracy in oral production by encouraging the use of Pronunciation Dictionary. (*Oxford Advanced Learners Dictionary*.)
4. To enable the learners to achieve an optimum level of intelligibility and fluency in speech.

Learning Outcomes

1. Learners will become acquainted with English Letters and Sounds through listening.
2. Learners will be able to use the critical essential skill for speaking.
3. Learners will progress in the direction of attaining fluency in speech.

ESE- 40 Marks and CA- 35 Marks

Periods: 55

Course Content:

Periods. 45

Unit-I

1. Introduction to Linguistics: Letters and Sounds.
2. Phonetics and Phoneme.

Unit-II

1. The Production of Speech.
2. Description and Classification of Vowel Sounds.
3. Description and Classification of consonant sounds.
4. Consonant Cluster.

Unit-III

1. Syllable and Its Types, Syllabification of Words.
2. Structure of Syllable.
3. The Received Pronunciation.
4. Assimilation and Elision.

Unit-IV

1. Word Transcription and Stress.
2. Sentence Transcription.
3. Weak and Strong Forms.
4. Intonation.

Prescribed text :A *Course book of Functional English* to be published by Swami Ramanand Teerth Marathwada University as E-book

Continuous Internal Evaluation: 35 Marks

Two class tests of 10 marks each + Home Assignment/Presentation/Seminar/Project of 15 marks = 35 marks

End Semester Examination: 40 marks

Question Paper Pattern:

- Q.1. Question with internal choice based on units -I,II,III 15 Marks.
- Q.2. Question based on units -I, II, III 15 Marks.
- Q. 3. Question based on unit -IV(any one out of two.) 10 Marks.

Paper: II. Communicative Grammar

Objectives of the Study:

1. To enable students to develop grammatical competence.
2. To equip students with appropriate language expressions to communicate effectively in both oral and written communication.
3. To introduce relevant areas of grammar and grammatical patterns to ensure accuracy and fluency in the Speaking and Writing Skills.

Intended Outcomes

1. Learners will develop a certain level of understanding regarding basic grammatical concepts.
2. Learners will be able to use the grammatical patterns for practical purposes.
3. Learners will become familiar to the common English expressions used for written communication in ordinary situations.

Unit-I

1. Articles.
2. Parts of Speech.
3. Tense and Time.
4. Tag questions.

Unit-II

1. Negative and affirmative sentences.
2. Sentence Pattern. (N.P. V.P).
3. Clause Elements: Basic Clause Types.
4. Antonyms and Synonyms.

Unit-III

1. Transformation of Sentences: simple, compound, complex, Active Passive, Direct and Indirect. Degree of comparison.
2. Types of Sentences.
3. Major Question Types.
4. Punctuation in English.

Unit-IV

1. Word formation Process: Bound Morpheme and free morpheme, suffix, affix, root word etc.
2. Difference in form and meaning.
3. Common errors in English.
4. Ambiguity in sentences.

Prescribed text :A *Course book of Functional English* to be published by Swami Ramanand Teerth Marathwada University as E-book

Suggested Readings:

5. *Essential English Grammar*- Raymond and Murphy.
6. *A Communicative Grammar of English*- Geoffrey Leech, London 1998.
7. *Advanced Grammar in Use*, New Delhi: CUP.-2008.
8. *Contemporary English Grammar: Structures and Composition*.

Continuous Internal Evaluation: 35 Marks

Two class tests of 10 marks each + Home Assignment/Presentation/Seminar/Project of 15 marks = 35 marks

End Semester Examination: 40 marks

Question Paper Pattern:

- | | |
|---|-----------|
| Q.1. Question with internal choice based on units -I, II, III | 15 Marks. |
| Q.2. Question based on units -I, II, III | 15 Marks. |
| Q. 3. Question based on unit -IV (any one out of two.) | 10 Marks. |

Semester-II

Paper: III. Developing Writing Skills

Objectives:

1. Developing Learners ability to communicate in written form.
2. Enhancing Learners' ability to use language according to situation.
3. Introducing Learners to business communication and its types.

Intended Outcomes

1. Learners will be able to use the English language needed in written documents.
2. Learners will sharpen their skill for various types of written communication.

Unit-I Communication and its Types

1. Verbal Communication.
2. Non-Verbal Communication..

Unit-II Formal Correspondence

1. Writing Job Application.
2. Writing Curriculum Vitae.
3. Email Writing.
4. Complaints.
5. Story Writing based on given outline.

Unit-III Defining and Describing.

1. Students will define day-today-things like places, persons, devices etc.
2. Drafting and editing.

Unit-IV Business Communication

1. Cross- Cultural differences and Communication.
2. Difference between British and American Business English.
3. Writing Reports.
4. Creative Writing.
5. Writing Research Paper, Project.

Suggested Readings:

1. Roman. M. and S. Sharma(2011) *Communication Skills*, OPU, New Delhi.
2. Lata P. and S. Kumar (2001) *Communication Skills* OPU, New Delhi.
3. Freeman, Sarah: *Written Communication in English*
4. *Contemporary English Grammar: Structures and Composition*.

Prescribed text :A *Course book of Functional English* to be published by Swami Ramanand Teerth Marathwada University as E-book

Continuous Internal Evaluation: 35 Marks

Two class tests of 10 marks each + Home Assignment/Presentation/Seminar/Project of 15 marks = 35 marks

End Semester Examination: 40 marks

Question Paper Pattern:

- | | |
|---|-----------|
| Q.1. Question with internal choice based on units -I, II, III | 15 Marks. |
| Q.2. Question based on units -I, II, III | 15 Marks. |
| Q. 3. Question based on unit –III (any one out of two.) | 10 Marks. |

Paper: IV. Developing Conversational Skills

1. Developing Learners' Conversational Skills and English Vocabulary for use in diverse situations.
2. Creating awareness for Cross- Cultural implications in conversation.
3. Making Learners aware of different communicative patterns.
4. Building confidence in Communication through active participation.

Intended outcomes:

1. Learners will be able to speak in acceptable patterns of everyday English.
2. Learners will become acquainted to neutral English pronunciations.
3. The confidence level of Learners in spoken communication will be enhanced.

Unit-I Communication Skills

1. Interview
2. Giving Personal Information.
3. Oral Presentations on the given topic.

Unit-II Public Speaking

1. Role Playing.
2. Debating.
3. Group Discussion
4. Talking in different situations.

Unit-III Formal and informal communication

Unit-IV Compeering and Anchoring a Programme

Suggested Readings:

1. *Effective Communication and Public Speaking*- Munsdal S.K..
2. *Speaking Effectively*- Jeremy C. Rogerso.
3. *Situational Conversation*- Grant Taylor.
4. *Advanced Conversational English* – Crystal D. and Darey.

Prescribed text :A *Course book of Functional English* to be published by Swami Ramanand Teerth Marathwada University as E-book

Continuous Internal Evaluation: 35 Marks

Two class tests of 10 marks each + Home Assignment/Presentation/Seminar/Project of 15 marks = 35 marks

End Semester Examination: 40 marks

Question Paper Pattern:

- | | |
|---|-----------|
| Q.1. Question with internal choice based on units -I, II, III | 15 Marks. |
| Q.2. Question based on units -I, II, III | 15 Marks. |
| Q. 3. Question based on unit –III (any one out of two.) | 10 Marks. |

B. A. First Year Optional English Syllabus w.e.f. 2019-20

Name of the course: **Understanding Prose Fiction**

Objectives:

- 1) To introduce the learners to the basics of Prose Fiction in English through close reading of select literary texts.
- 2) To develop the skills of analysis, interpretation, and critical scrutiny through the study of selected novels and short stories.
- 3) To acquaint the learners with the art of fiction writing in English.

Intended Outcome

- 1) Learners will be able to appreciate the texts in English Prose Fiction genre.
- 2) Through responding to different texts of Prose Fiction, the learners will acquaint themselves with the wide range of expressions in the English language.
- 3) Learners will carry out the tasks of interpretation of novels and short stories by studying the critical analyses of the prescribed texts.

Syllabus

Unit No.	Contents
I	The Elements of Prose Fiction
II	Brief History of English Prose Fiction
III	Novel- <i>The Old Man and the Sea</i> : Ernest Hemingway
IV	Novella- <i>Animal Farm</i> : George Orwell
V	Short Story - A) <i>The Country of the Blind</i> : H. G. wells B) <i>The Three Strangers</i> : Thomas Hardy
VI	Short Story - A) <i>The Man from Mars</i> : Margaret Atwood B) <i>The Purloined Letter</i> : Edgar Allen Poe

Prescribed text : *An Anthology of English Prose Fiction* to be published by Macmillan Education

Continuous Internal Evaluation: 35 Marks

Two class tests of 10 marks each + Home Assignment/Presentation/Seminar/Project of 15 marks = 35 marks

End Semester Examination: 40 marks

Question Paper Pattern

Question no.1- Essay type question with internal choice (based on Units III and IV)- 15 marks

Question no.2- Essay type question with internal choice (based on Units V and VI)- 15 marks

Question no.3-Short notes with internal choice Q.3(A)–Unit I (One out of Two)Q.3(B)–Unit II (One out of Two) - 10 marks

Paper 2- : Understanding Poetry in English

Objectives:

- 1) To introduce the learners to the basics of Poetry in English through close reading of select literary texts.
- 2) To develop the skills of analysis, interpretation, and critical scrutiny through the study of diverse poetic texts.
- 3) To acquaint the learners with the art of Poetry writing in English.

Intended Outcome:

- 1) Learners will be able to appreciate English Poetry with an understanding of diverse poetic forms and themes.
- 2) Through responding to different Poetic texts the learners will acquaint themselves with the various nuances of poetic expressions in the English language.
- 3) Learners will carry out the tasks of interpretation of poems by studying the critical analyses of the prescribed texts.

Unit No.	Contents
I	The Elements of Poetry
II	Brief History of English Poetry
III	The Sonnet A) <i>On His Blindness</i> : John Milton B) <i>Amoretti LXXV: One Day I Wrote her Name</i> : Edmund Spenser C) <i>Remember</i> : Christina Rossetti
IV	The Ballad A) <i>Truth-Ballad of Good Counsel</i> : Geoffrey Chaucer B) <i>The Ballad of Reading Gaol</i> : Oscar Wilde C) <i>The Ballad of East and West</i> : Rudyard Kipling
V	The Ode A) <i>Ode to Duty</i> : William Wordsworth B) <i>Ode to Autumn</i> : John Keats C) <i>Ode to the West Wind</i> :P. B. Shelley
VI	The Elegy A) <i>Elegy III: Change</i> : John Donne B) <i>In Memoriam A.H.H. (Canto 21)</i> : Alfred Lord Tennyson C) <i>Elegy Written in a Country Churchyard</i> : Thomas Gray

Prescribed text :*An Anthology of English Poetry* to be published by Macmillan Education

Continuous Internal Evaluation: 35 Marks

Two class tests of 10 marks each + Home Assignment/Presentation/Seminar/Project of 15 marks = 35 marks

End Semester Examination: 40 marks

Question Paper Pattern

Question no.1- Essay type question with internal choice (based on Units III and IV)- 15 marks

Question no.2- Essay type question with internal choice (based on Units V and VI)- 15 marks

Question no.3-Short notes with internal choice Q.3(A)–Unit I (One out of Two)Q.3(B)–Unit II (One out of Two) - 10 marks

Paper 3- : Understanding Non-Fictional Prose in English

Objectives:

- 1) To introduce the learners to the basics of Non-fictional prose in English through close reading of select literary texts.
- 2) To develop the skills of analysis, interpretation, and critical scrutiny through the study of diverse Non-fictional prose writings.
- 3) To acquaint the learners with the art of Non-fictional prose in English.

Intended Outcome:

- 1) Learners will be able to appreciate English Non-fictional prose with an understanding of various prose writings as developed through ages.
- 2) Through responding to different Prose writings learners will be enriched in the use of prose for diverse thematic expressions.
- 3) Learners will attain a certain degree of proficiency in the interpretation of English prose.

Unit No.	Contents
I	The Elements of Non-Fictional Prose
II	Brief History of English Non-Fictional Prose
III	The Essay Francis Bacon's essays- <i>Of Revenge,</i> <i>Of Parents and Children,</i> <i>Of Marriage and Single Life,</i> <i>Of Studies</i>
IV	Autobiography <i>Waiting for a Visa: Dr. B. R. Ambedkar</i>
V	Biography <i>Life of Milton : Samuel Johnson</i>
VI	Travelogue <i>Travels with a Donkey in the Cevennes : Robert Louis Stevenson</i>

Prescribed text : *An Anthology of English Nonfictional Prose* to be published by Macmillan Education

Continuous Internal Evaluation: 35 Marks

Two class tests of 10 marks each + Home Assignment/Presentation/Seminar/Project of 15 marks = 35 marks

End Semester Examination: 40 marks

Question Paper Pattern

Question no.1- Essay type question with internal choice (based on Units III and IV)- 15 marks

Question no.2- Essay type question with internal choice (based on Units V and VI)- 15 marks

Question no.3-Short notes with internal choice Q.3(A)–Unit I (One out of Two)Q.3(B)–Unit II (One out of Two) - 10 marks

Paper 4- : Understanding Drama in English

Objectives:

- 1) To introduce the learners to the tradition of drama and the development of dramatic art through ages.
- 2) To develop the skills of analysis, interpretation, and critical scrutiny through the study of diverse dramatic texts.
- 3) To acquaint the learners with the art of Drama in English.

Intended Outcome:

- 1) Learners will be able to appreciate English Drama with an understanding of various dramatic texts.
- 2) Through responding to different plays learners will be introduced to various types of dramatic experiences.
- 3) Learners will be able to critically analyze texts from different dramatic genres.

Unit No.	Contents
I	The Elements of Drama
II	Brief History of English Drama
III	Full Length Play (Five Acts) <i>Romeo and Juliet</i> : William Shakespeare
IV	Full Length Play (Three Acts) <i>Playboy of the Western World</i> : J.M. Synge
V	Full Length Play (Episodic) <i>Saint Joan</i> : George Bernard Shaw
VI	One Act Play A) <i>Aria da Capo</i> : Edna St. Vincent Millay B) <i>Chitra</i> : Rabindranath Tagore

Prescribed text : *An Anthology of English Drama* to be published by Macmillan Education

Continuous Internal Evaluation: 35 Marks

Two class tests of 10 marks each + Home Assignment/Presentation/Seminar/Project of 15 marks = 35 marks

End Semester Examination: 40 marks

Question Paper Pattern

Question no.1- Essay type question with internal choice (based on Units III and IV)- 15 marks

Question no.2- Essay type question with internal choice (based on Units V and VI)- 15 marks

Question no.3-Short notes with internal choice Q.3(A)–Unit I (One out of two)Q.3(B)–Unit II (One out of two) - 10 marks

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Board of Studies in English

Books to be prescribed and published as texts for new syllabus with effect from 2019-20

1) Undergraduate Level

First year degree course

Sr. No.	Course	Title	Publisher	Format
1	AECC Compulsory English	Horizon: AECC English Textbook	Macmillan Education (India)	Hard Copy
2	Optional English	An Anthology of English Prose Fiction	Macmillan Education (India)	Hard Copy
3	Optional English	An Anthology of English Poetry	Macmillan Education (India)	Hard Copy
4	Optional English	An Anthology of English Drama	Macmillan Education (India)	Hard Copy
5	Optional English	An Anthology of English Nonfictional Prose	Macmillan Education (India)	Hard Copy
6	Functional English	A Coursebook of Functional English-I	Swami Ramanand Teerth Marathwada University	E-Book
7	Functional English	A Coursebook of Functional English-II	Swami Ramanand Teerth Marathwada University	E-Book
8	Additional English(SL)	Panorama	Swami Ramanand Teerth Marathwada University	E-Book

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स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड- ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

स्वामी रामानंद तीर्थ
मराठवाडा विद्यापीठ, नांदेड.

Established on 17th September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



ACADEMIC (1-BOARD OF STUDIES) SECTION

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कला विद्याशाखेतील पदवी स्तरावरील
इंग्रजी विषयाचा सी.बी.सी.एस. पॅटर्नचा
अभ्यासक्रम शैक्षणिक वर्ष २०१६-१७
पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक १२ मे २०१६ रोजी संपन्न झालेल्या ३६व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.९/३६-२०१६ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील कला विद्याशाखेतील पदवी स्तरावरील खालील विषयाचा **C.B.C.S. (Choice Based Credit System) Pattern** चा अभ्यासक्रम शैक्षणिक वर्ष २०१६-१७ पासून लागू करण्यात येत आहे.

१. बी.ए./बी.कॉम./बी.एस्सी. इंग्रजी (अनिवार्य, द्वितीय भाषा, फंक्शनल आणि ऐच्छिक) — प्रथम वर्ष (सत्र पहिले व दुसरे)

सदरील अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहे. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,
विष्णुपुरी, नांदेड — ४३१ ६०६.
जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदवी-सीबीसीएस अभ्यासक्रम/
२०१६-१७/८७०
दिनांक : १२.०८.२०१६.



स्वाक्षरित /—
संचालक
महाविद्यालय व विद्यापीठ विकास मंडळ

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. परीक्षा नियंत्रक यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

**S. R. T. M. University, Nanded – English Language & Literature
(UG) Syllabus, Semester + CBCS Pattern W.e.f. June 2016**

Distribution of Credits for B. A./B. Sc./B. Com. **English Compulsory, SL, Functional & Optional English First Year**

Under the Faculty of Arts

Semester + CBCS Pattern Structure

w.e.f. June 2016

Subject: English Compulsory

Semester	Paper No.	Name of the Course	Lectures Per/week	Total Periods	Internal Evaluation (CA)	Marks of Semester (ESE)	Total Marks	Credits
I	I	English Compulsory	05	55	35	40	75	03
II	II	English Compulsory	05	55	35	40	75	03

Distribution of Credits for B. A. First Year **English Optional**

Under the Faculty of Arts

B. A. Syllabus Structure

Semester + CBCS Pattern Structure

w.e.f. June 2016

Subject: English Optional

Semester	Paper No.	Name of the Course	Lectures Per/week	Total Periods	Internal Evaluation CA	Marks of Semester ESE	Total Marks	Credits
I	I	Study of Fiction: Short Story	04	55	35	40	75	03
	II	Study of Drama: One Act Play	04	55	35	40	75	03
II	III	Study of Fiction: Full Length Fiction	04	55	35	40	75	03
	IV	Study of Drama: Full Length Drama	04	55	35	40	75	03

Distribution of Credits for B. A. **Additional English (SL)**

Under the Faculty of Arts

B. A. Syllabus Structure

Semester + CBCS Pattern Structure

w.e.f. June 2016

Subject: Additional English (SL)

Semester	Paper No.	Name of the Course	Lectures Per/week	Total Periods	Internal Evaluation CA	Marks of Semester ESE	Total Marks	Credits
I	I	Additional English (SL)	04	55	35	40	75	03
II	II	Additional English(SL)	04	55	35	40	75	03

Distribution of Credits for B. A. **Functional English**

Under the Faculty of Arts

B. A. Syllabus Structure

Semester + CBCS Pattern Structure

w.e.f. June 2016

Subject:Functional English

Semester	Paper No.	Name of the Course	Lectures Per/week	Total Periods	Internal Evaluation CA	Marks of Semester ESE	Total Marks	Credits
I	I	Introduction to Phonetics	04	55	35	40	75	03
	II	Remedial Grammar	04	55	35	40	75	03
II	II	Introduction to Phonetics	04	55	35	40	75	03
	IV	Remedial Grammar	04	55	35	40	75	03

**Syllabus For
Compulsory English - First Year
Semester I**

Credits: 03(Marks: 75)

(ESE – 40 Marks and CA- 35 Marks)
(30 Theory + 10 MCQ)

Periods: 55

Objectives

To introduce the students with short stories, essays on a variety of important topics,

To encourage them to understand and appreciate prose writings of well-known writers, To acquaint them with ‘prose’, its meaning and importance,

To make them learn grammar items, such as antonyms, synonyms, etc.

To enable them to write grammatically accurate sentences, by identifying common errors in writing,

To encourage them to write short reports, personal and business letters,

To prepare them to write short, precise, and meaningful e-mails for a variety of purposes,

To prepare the students for competitive exams by encouraging them to learn English,

Unit I- Prose [Marks: 30]

Periods 25

1. The Secret of Work- Swami Vivekananda
2. On Saying Please- A G Gardiner
3. Go, Kiss the World- Subrato Bagchi
4. The Night Train at Deoli- Ruskin Bond
5. The Scientific Point of View- JBS Haldane
6. Father's Help- RK Narayan
7. Karma- Khushwant Singh
8. If you are Wrong, Admit It- Dale Carnegie

Unit II- Grammar [Marks: 10]

Periods 20

1. Antonyms/Synonyms, Common Errors [50 items are to be given from the text]
2. Report Writing, Letter Writing, e-mail Writing

Unit III- Continuous Assessment (CA) [Marks: 35]

Periods 10

Note: Continuous Assessment may be done on the basis of following criteria

- 1) Two (2) class tests during the semester for 10 Marks each.
- 2) One (1) Assignment during each semester for 15 Marks.

**Syllabus For
Compulsory English - First Year
Semester II**

Credits: 03(Marks: 75)

(ESE – 40 Marks and CA- 35 Marks)

(30 Theory + 10 MCQ)

Periods: 55

Objectives of the Study:

To encourage the students to understand and appreciate short lyrical poems,

To motivate them to enjoy the inherent rhythmic beauty of lyrical poetry,

To acquaint them with famous world poets such as Shakespeare, Blake, Tagore, etc,

To prepare the students for competitive exams by encouraging them to learn English,

To develop in the students communicative competence by encouraging them to learn to listen, speak, read and write properly,

To develop the language skills of listening, speaking, reading and writing in the students so that they could use the English language in day to day, practical situations,

To make the students understand the importance of non-verbal communication, i.e. body language so as to make communicative situations more meaningful, positive and effective,

Unit I- Poetry [Marks: 30]

Periods 25

1. Marriage of True Minds (Sonnet 116)- William Shakespeare
2. The School Boy- William Blake
3. The Education of Nature- William Wordsworth
4. All Things will Die- Alfred Lord Tennyson
5. Still I Rise- Maya Angelou
6. My Grand Mother- Elizabeth Jennings
7. Where the Mind is without Fear- Rabindranath Tagore
8. Refugee Mother and Child- Chinua Achebe

Unit II- Communication Skills [Marks: 10]

Periods 20

1. Verbal Communication: Listening, Speaking, Reading and Writing
2. Non-verbal Communication: Importance of Body Language

Unit III- Continuous Assessment (CA) [Marks: 35]

Periods 10

Note: Continuous Assessment may be done on the basis of following criteria

- 1) Two (2) class tests during the semester for 10 Marks each.
- 2) One (1) Assignment during each semester for 15 Marks.

Syllabus For
Optional English - First Year
Semester I
Paper No. I
Title: Study of Fiction- Short Story

Credits: 03(Marks: 75)

(ESE – 40 Marks and CA- 35 Marks)
(30 Theory + 10 MCQ)

Periods: 55

Objectives of the Study:

To acquaint the students with the literary genre of 'fiction,' particularly short story,

To introduce the meaning, types, features and functions of "short story,"

To encourage them to read, understand, and appreciate short stories,

To introduce them with the world famous short story tellers from England, USA, and India,

To inculcate in the students the habit of reading short stories.

Unit I – Background to Short Story- B Prasad Text Book- [Marks -10] Periods 10

Unit II- Short Stories-[Marks -30]

Periods 35

1. The Happy Prince- Oscar Wilde
2. The Open Window- Saki (HM Munro)
3. After Twenty Years – O' Henry
4. A Ghost- Gay De Maupassant
5. Home Coming- Rabindranath Tagore
6. A Woman is Dead- Sunita Jain

Unit III- Continuous Assessment (CA) [Marks: 35]

Periods 10

Note: Continuous Assessment may be done on the basis of following criteria

- 1) Two (2) class tests during the semester for 10 Marks each.
- 2) One (1) Assignment during each semester for 15 Marks.

Syllabus For
Optional English - First Year
Semester I
Paper No. II
Title: Study of Drama- One Act Play

Credits: 03(Marks: 75)
(ESE – 40 Marks and CA- 35 Marks)
(30 Theory + 10 MCQ)

Periods: 55

Objectives of the Study:

- To acquaint the students with the literary genre of ‘drama,’ mainly One Act Play,
- To introduce the meaning, types, features and functions of “One Act Play,”
- To make them understand the mechanics of stage performance/acting/theatre direction, etc.,
- To encourage them to understand and appreciate the literary art of play writing,
- To encourage the students to watch and enact one act plays,
- To develop among the students a liking for watching, enjoying and appreciating the art of drama.

Unit I – Background to Drama-One Act Play--B Prasad Text Book-[Marks -10]

Periods 10

Unit II- One Act Play- [Marks -30]

Periods 35

1. Refund- Scott Fitzgerald
2. Riders to the Sea-J.M.Synge
3. Endgame- Samuel Beckett
4. The Anniversary- Anton Chekov

Unit III- Continuous Assessment (CA) [Marks: 35]

Periods 10

Note: Continuous Assessment may be done on the basis of following criteria

- 1) Two (2) class tests during the semester for 10 Marks each.
- 2) One (1) Assignment during each semester for 15 Marks.

Syllabus For
Optional English - First Year
Semester II
Paper No. III
Title: Study of Fiction- Full Length Fiction

Credits: 03(Marks: 75)

(ESE – 40 Marks and CA- 35 Marks)
(30 Theory + 10 MCQ)

Periods: 55

Objectives of the Study:

To acquaint the students with the literary genre of 'fiction,' particularly full length fiction/novels,

To introduce the meaning, features, functions and various types of fiction/novel,

To encourage them understand and appreciate themes, motifs, symbolism and characters in the novels selected from diverse cultural milieu,

To introduce them with the world famous novelists such as Conrad, Hemingway, and RK Narayan,

To inculcate in the students the habit of reading novels for aesthetic pleasure.

Unit I – Background to Fiction- B Prasad Text Book-[Marks -10]

Periods 10

Unit II- Novels-[Marks -30]

Periods 35

1. Heart of Darkness- Joseph Conrad

2. The Sun Also Rises- Earnest Hemingway

3. Bachelor of Arts- RK Narayan

Unit III- Continuous Assessment (CA) [Marks: 35]

Periods 10

Note: Continuous Assessment may be done on the basis of following criteria

- 1) Two (2) class tests during the semester for 10 Marks each.
- 2) One (1) Assignment during each semester for 15 Marks.

**Syllabus For
Optional English - First Year
Semester II
Paper No. IV**

Title: Study of Drama- Full Length Play

Credits: 03(Marks: 75)

(ESE – 40 Marks and CA- 35 Marks)

(30 Theory + 10 MCQ)

Periods: 55

Objectives of the Study:

To acquaint the students with the literary genre of 'drama,' mainly Full Length Plays,
To introduce the students with meaning, types, features and functions of full length drama, To make them understand the mechanics of stage performance/acting/theatre direction, etc.,
To develop among the students a liking for watching, enjoying and appreciating the art of drama
for artistic and aesthetic pleasure,
To encourage the students to watch and enact/perform full-length plays during college gatherings/annual days/drama competitions, etc.

Unit I – Background to Drama- Full Length Play – B Prasad Text Book- [Marks -10]

Periods 10

Unit II- Full Length Plays -[Marks -30]

Periods 35

1. Othello- William Shakespeare
2. The Entertainer- John Osborne
3. The Wedding Album- Girish Karnad

Unit III- Continuous Assessment (CA) [Marks: 35]

Periods 10

Note: Continuous Assessment may be done on the basis of following criteria

- 1) Two (2) class tests during the semester for 10 Marks each.
- 2) One (1) Assignment during each semester for 15 Marks.

Syllabus For
S L Additional English - First Year
Semester I
Paper: I

Credits: 03(Marks: 75)

(ESE – 40 Marks and CA- 35 Marks)
(30 Theory + 10 MCQ)

Periods: 55

Objectives of the Study:

1. To acquaint the second language learners with the finest English short stories from various countries
2. To acquaint the second language learners with the instructive, informative, scientific and entertaining prose pieces.
3. To acquaint the second learners with reflective and appealing poetry
4. To help the learners acquire writing skills in English
5. To enrich the vocabulary of the learners

Following short stories, Poems and writing skills:

UNIT-I Short stories- (Marks 15)

Peroids 20

- 1) The Gift of Maggi -O' Henry
- 2) A Duel -Guy de Maupassant
- 3) Nitya - RK Narayan
- 4) The Fatalist - I B Singer
- 5) The Child - Premchand

UNIT-II Poetry- (Marks 15)

Peroids 10

- 1) On His Blindness -John Milton
- 2) The Echoing Green -William Blake
- 3) The World Is Too Much with Us- William Wordsworth

UNIT-III Writing skills- (Marks 10)

Peroids 15

- 1) Letter writing and invitations
- 2) Telegrams and notices
- 3) Using punctuations and spellings

Unit IV- Continuous Assessment (CA) [Marks: 35]

Peroids 10

Note: Continuous Assessment may be done on the basis of following criteria

- 1) Two (2) class tests during the semester for 10 Marks each.
- 2) One (1) Assignment during each semester for 15 Marks.

Syllabus For
S L Additional English - First Year
Semester II
Paper: II

Credits: 03(Marks: 75)

(ESE – 40 Marks and CA- 35 Marks)
(30 Theory + 10 MCQ)

Periods: 55

Objectives of the Study:

1. To acquaint the second language learners with the finest English short stories from various countries
2. To acquaint the second language learners with the instructive, informative, scientific and entertaining prose pieces.
3. To acquaint the second learners with reflective and appealing poetry
4. To help the learners acquire writing skills in English
5. To enrich the vocabulary of the learners

Following Essays, Poems and Vocabulary exercises:

UNIT-I Essays (Marks 15)

Periods 20

- 1) Work in the Sun and in the Light - Jawaharlal Nehru
- 2) My Financial Career - Stephen Leacock
- 3) Principles of Good Writing - L A Hill
- 4) The Elixir of Life - CV Raman
- 5) Streamlining - C. Bevers

UNIT-II Poems (Marks 15)

Periods 10

- 1) A Bird Came Down the Walk - Emily Dickinson
- 2) Stopping by Woods on a Snowy Evening - Robert Frost
- 3) Night of the Scorpion -Nissim Ezekiel

UNIT-III Vocabulary and other exercises (Marks 10)

Periods 15

- 1) Single word for a group of words
- 2) Antonyms and synonyms
- 3) Miscellaneous exercises in use of articles, prepositions, voice, narration and modals

Unit IV- Continuous Assessment (CA) [Marks: 35]

Periods 10

Note: Continuous Assessment may be done on the basis of following criteria

- 1) Two (2) class tests during the semester for 10 Marks each.
- 2) One (1) Assignment during each semester for 15 Marks.

Prescribed Text:

Singh, Jagdip and Praveen kumar (Ed). The Threshold Second edition. Revised by Balwant kumar, Krishan Gopal and Praveen Kumar. Delhi: Macmillan Publishers India Ltd. Reprinted 2004-09 five times. ISBN 13: 978-1403-9107-9

Syllabus For
Functional English – BA First Year
Semester I
Paper: I Introduction to Phonetics

Credits: 03(Marks: 75)

(ESE – 40 Marks and CA- 35 Marks)
(30 Theory + 10 MCQ)

Periods: 55

Objectives of the Study:

#Building a Bridge between Academics and Workplace

Unit I (Marks: 40)

Periods 45

1. English Phonology, IPA notations for consonants and vowels
2. Organs of Speech
3. Study of Consonants articulation:
4. Plosives, affricates, nasals, fricatives, lateral, frictionless continuant, semi- vowels.
5. Study of vowel articulation:
6. Monophthongs and diphthongs
7. Front, central, back vowels
8. Closing diphthongs and centering diphthongs
9. Syllable and its structure

Unit II- Continuous Assessment (CA) [Marks: 35]

Periods 10

Note: Continuous Assessment may be done on the basis of following criteria

- 1) Two (2) class tests during the semester for 10 Marks each.
- 2) One (1) Assignment during each semester for 15 Marks.

Recommended reading:

1. A Course in Phonetics and Spoken English- Sethi & Dhamija
2. Simple Phonetics for Teachers- Jean Smith & Margaret Bloor
3. An Introduction to the Pronunciation of English- A.C.Gimson
4. Better English Pronunciation- J.D.O'Connor
5. Spoken English for India- Bansal & Harrison
6. A Textbook of English Phonetics- T. Balasubramanian

**Syllabus For
Functional English – BA First Year
Semester I**

Paper: II Remedial Grammar

Credits: 03(Marks: 75)

(ESE – 40 Marks and CA- 35 Marks)

(30 Theory + 10 MCQ)

Periods: 55

Objectives of the Study:

#Building a Bridge between Academics and Workplace

Unit I-[Marks- 40]

Periods 45

1. Introduction to Word Class- Open Class and close system
2. Detail study of Noun: kinds, Properties of Noun- Number, Person, Gender and Case, foreign plurals
3. Detail study of Pronoun: kinds, Properties of Noun- Number, Person, Gender and Case
4. Detail study of Verbs : classification of verbs- Lexical- auxiliary, regular- irregular, stative, intensive, extensive etc
5. Detail study of Modals
6. Adjective: function and classification- stative, dynamic, gradable, non-gradable etc. degrees of comparison
7. Adverb: function and classification
8. Determiners: Articles. Demonstrative, Numericals, & Quantifiers etc.

Unit II- Continuous Assessment (CA) [Marks: 35]

Periods 10

Note: Continuous Assessment may be done on the basis of following criteria

- 1) Two (2) class tests during the semester for 10 Marks each.
- 2) One (1) Assignment during each semester for 15 Marks.

Recommended reading:

1. Essential English Grammar- Raymond Murphy
2. Intermediate English Grammar- Raymond Murphy
3. A Communicative grammar of English- Geoffrey Leech
4. Modern English- N. Krishnaswami
5. Contemporary English Grammar Structures and Composition- David Green

Syllabus For
Functional English – BA First Year
Semester II
Paper: III Introduction to Phonetics

Credits: 03(Marks: 75)

(ESE – 40 Marks and CA- 35 Marks)
(30 Theory + 10 MCQ)

Periods: 55

Objectives of the Study:

#Building a Bridge between Academics and Workplace

Unit I -[Marks- 40]

Periods 45

1. Syllable and its types, syllabification of words
2. Consonant cluster
3. Word accent and its functions
4. Assimilation and elision
5. Accent , rhythm and Intonation in connected speech
6. Segmental and super segmental features

Unit II- Continuous Assessment (CA) [Marks: 35]

Periods 10

Note: Continuous Assessment may be done on the basis of following criteria

- 1) Two (2) class tests during the semester for 10 Marks each.
- 2) One (1) Assignment during each semester for 15 Marks.

Recommended reading:

1. A Course in Phonetics and Spoken English- Sethi & Dhamija
2. Simple Phonetics for Teachers- Jean Smith & Margaret Bloor
3. An Introduction to the Pronunciation of English- A.C.Gimson
4. Better English Pronunciation- J.D.O'Connor
5. Spoken English for India- Bansal & Harrison
6. A Course in English Phonetics Tej. R. Kansakar
7. A Textbook of English Phonetics- T. Balasubramanian

Syllabus For
Functional English – BA First Year
Semester II
Paper: IV Remedial Grammar

Credits: 03(Marks: 75)

(ESE – 40 Marks and CA- 35 Marks)
(30 Theory + 10 MCQ)

Periods: 55

Objectives of the Study:

#Building a Bridge between Academics and Workplace

Unit I-[Marks- 40]

Periods 45

1. Uses of Prepositions
2. English tense System and uses of tenses
3. Clause Elements and Basic Clause Types
4. Transformation of sentences: active- Passive, Direct- indirect, simple, compound and complex, Degrees of Comparison etc
5. Grammar puzzles and games

Unit II- Continuous Assessment (CA) [Marks: 35]

Periods 10

Note: Continuous Assessment may be done on the basis of following criteria

- 1) Two (2) class tests during the semester for 10 Marks each.
- 2) One (1) Assignment during each semester for 15 Marks.

Recommended reading:

1. Essential English Grammar- Raymond Murphy
2. Intermediate English Grammar- Raymond Murphy
3. A Communicative grammar of English- Geoffery Leech
4. Modern English- N. Krishnaswami
5. Contemporary English Grammar Structures and Composition- David Green

The BOS Meeting held on Dt. 06-12-2013. It is unanimously discussed & decided the following Changes by members of English Board.

Original Syllabus

Syllabus Changed

On Dt.06-12-2013 in BOS Meeting

B.A. First Year – Optional English – Paper I – Semester - I

Unit I – Background to Short Story- B

Prasad Text Book----- [Marks -10]

Unit I – Background to Short Story- B Prasad –

Section III Chapter III Text Book----- [Marks -10]

Note : To Nun With Love by Shiv K. Kumar has been deleted from the Syllabus. B.A. First Year – Optional English – Paper II – Semester - I

Unit I – Background to Drama-One Act Play-----

B Prasad Text Book----- [Marks -10]

Unit I – Background to Drama-One Act Play-----

B Prasad- Section II – Chapter II- Text Book-----

[Marks -10]

Note : The Death of Hired man by Robert Frost has been deleted from the syllabus. (From 2014-15) B.A. First Year – Optional English – Paper III – Semester - II

Unit I – Background to Fiction- B Prasad

Text Book----- [Marks -10]

Unit I – Background to Fiction- B Prasad –

Section III Chapter II - Text Book----- [Marks -10]

Note : The Native Son by Robert Wright has been deleted from the Syllabus.(from 2013-2014) B.A. First Year – Optional English – Paper IV – Semester - II

Unit I – Background to Drama- Full Length

Play – B Prasad Text Book----- [Marks -10]

Unit I – Background to Drama- Full Length Play

– B Prasad – Section II Chapter I & II, Unit I –

Tragedy & Comedy - Text Book----- [Marks -10]

Note : Death of a salesman by Arthur Miller has been deleted from the Syllabus (from 2013-2014)

॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड
“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)
SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED
“Dnyanteerth”, Vishnupuri, Nanded - 431606 Maharashtra State (INDIA)
Established on 17th September 1994 – Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with ‘A’ Grade



ACADEMIC (1-BOARD OF STUDIES) SECTION

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संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे CBCS Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ३० एप्रिल २०१९ रोजी संपन्न झालेल्या ४३व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.५/४३-२०१९ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्यात येत आहेत.

- १) बी.ए.—प्रथम वर्ष—इंग्रजी (अनिवार्य, अतिरिक्त (द्वितीय भाषा), फंक्शनल इंग्रजी, ऐच्छिक)
- २) बी.ए.—प्रथम वर्ष—हिंदी (द्वितीय भाषा, ऐच्छिक)
- ३) बी.ए.—प्रथम वर्ष—मराठी (द्वितीय भाषा, ऐच्छिक)
- ४) बी.ए.—प्रथम वर्ष—पाली (द्वितीय भाषा, ऐच्छिक)
- ५) बी.ए.—प्रथम वर्ष—संस्कृत (द्वितीय भाषा, ऐच्छिक)
- ६) बी.ए.—प्रथम वर्ष—उर्दू (द्वितीय भाषा, ऐच्छिक)
- ७) बी.ए.—प्रथम वर्ष—अर्थशास्त्र
- ८) बी.ए.—प्रथम वर्ष—भूगोल
- ९) बी.ए.—प्रथम वर्ष—इतिहास
- १०) बी.ए.—प्रथम वर्ष—सैनिकशास्त्र
- ११) बी.ए.—प्रथम वर्ष—तत्त्वज्ञान
- १२) बी.ए.—प्रथम वर्ष—राज्यशास्त्र
- १३) बी.ए.—प्रथम वर्ष—मानसशास्त्र
- १४) बी.ए.—प्रथम वर्ष—लोकप्रशासन
- १५) बी.ए.—प्रथम वर्ष—समाजशास्त्र
- १६) बी.ए.—प्रथम वर्ष—अॅडमिनिस्ट्रेटिव्ह सर्व्हिस

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,
विष्णुपुरी, नांदेड — ४३१ ६०६.
जा.क्र.: शैक्षणिक—०१/परिपत्रक/पदवी—सीबीसीएस अभ्यासक्रम/
२०१९-२०/६६
दिनांक : १७.०६.२०१९.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

स्वाक्षरित /—
उपकुलसचिव
शैक्षणिक (१-अभ्यासमंडळ) विभाग



**SWAMI RAMANAND TEERTH
MARATHWADA UNIVERSITY, NANDED**

SYLLABUS

GEOGRAPHY

B.A. FIRST YEAR

**SEMESTER PATTERN
(Choice Based Credit System)**

With Effect From: June, 2019

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Choice Based Credit System (CBCS) Course Structure

Subject-Geography

B.A. First Year (New Pattern)

with effect from: June, 2019

Semester	Core Course	Paper No.	Name of the Paper	Lectures/ Week	Total No. of Lect. Per Sem.	CA	ESE	Total Marks	Credits
I	CCGEOG- I	I	An Introduction to Physical Geography	04	60	10	40	50	02
	CCGEOG- II	II	An Introduction to Human Geography	04	60	10	40	50	02
	CCGEOG- III	III	Practical Geography	03	60	10	40	50	02
Semester - I Total				11	180	30	120	150	06
II	CCGEOG- IV	IV	Geomorphology	04	60	10	40	50	02
	CCGEOG- V	V	Population Geography	04	60	10	40	50	02
	CCGEOG- VI	VI	Practical Geography	03	60	10	40	50	02
Semester - II Total				11	180	30	120	150	06

(CC= Core Course, CA= Continuous Assessment (Internal), ESE= End Semester Examination).

1. Teaching work load shall be four periods per week for each theory paper and three periods per batch per week for practical.
2. Strength of students for each practical batch shall not be more than 20 (twenty).
3. Students shall not be allowed for Practical Examination without certified journal.
4. Total periods for each theory paper shall be 60 per semester.
5. Total periods for practical paper shall be 60 per semester.
6. Practical examination will be held at the end of the academic year (summer).
7. CA (Continuous Assessment) Pattern for each theory paper - one test and one home assignment of 5 marks each.

Question Paper Model and Scheme of Marking

Subject: **GEOGRAPHY**

B. A. First Year (Semester I and II) **Theory (Paper I, II, and IV,V)**

(w. e. f. June 2019)

Marks: 40

Q.1 Descriptive type question **(15)**

OR

Descriptive type question

Q.2 Descriptive type question **(15)**

OR

Descriptive type question

Q.3 Write a short note on *any two* of the following **(10)**

a) Short note

b) Short note

c) Short note

d) Short note

Question Paper Model and Scheme of Marking

Subject: **GEOGRAPHY**

B. A. First Year (Semester I) **Practical (Paper III)**

(w. e. f. June 2019)

Marks: 40

Q.1	a) Conversion of Scale (any two)	(04)
	b) Construction of Scale (any one)	(06)
Q.2	a) Write short notes on methods of showing relief feature (any two)	(04)
	b) Representation of Landforms by Contour (any two)	(06)
Q.3	a) Conventional Signs and Symbols (any four)	(04)
	b) Interpretation of Toposheet (any two)	(06)
Q.4	Journal and Viva-voce	(10)

Question Paper Model and Scheme of Marking

Subject: **GEOGRAPHY**

B. A. First Year (Semester II) **Practical (Paper VI)**

(w. e. f. June 2019)

Marks: 40

Q.1	a) Density of Population (any one)	(05)
	b) Growth of Population (any one)	(05)
Q.2	a) Birth Rate (any one)	(05)
	b) Death Rate (any one)	(05)
Q.3	a) Graph-Bar/Line (any one)	(05)
	b) Age and Sex Pyramid	(05)
Q.4	Journal and Viva-voce	(10)

B. A. First Year
Subject: Geography
Semester – I
Paper- CCGEOG-I
An Introduction to Physical Geography

Marks: 50

Credits: 02

Periods: 60

Salient Features

1. The aim of this course is to introduce the students with basic concepts of physical geography. To know the development of various branches physical geography.

Utility

1. To help students to know the formation and nature of solar system, oceans, continents and landforms

Learning Objectives

1. To know the formation of continents and Oceans
2. To study the rotation and revolution of the earth and its impact

Pre-requisites

1. Books, Maps, Globe, Models
 2. ICT
-

Unit: 1 Introduction

- A. Definition, Nature and Scope of Physical Geography
- B. Branches of Physical Geography
- C. Importance of Study of Physical Geography

Unit: 2 Solar System

- A. Solar System and its Origin
 - i. Solar System
 - ii. Nebular Theory of Laplace
 - iii. Tidal Hypothesis of Jeans and Jeffery

Unit: 3 Formation of Oceans and Continents

- A. Continental Drift Theory
- B. Plate Tectonic Theory

Unit: 4 Landforms and Rotation and Revolution of the Earth

- A. First Order – Ocean and Continents
- B. Second Order – Mountain, Plateau, Plain and Their Types
- C. Rotation and Revolution of the Earth
 - i. Rotation- Formation of Day and Night
 - ii. Revolution- Formation of Seasons
 - iii. Solar Eclipse and Lunar Eclipse

REFERENCES

- 1) Clyton. K. (1986) 'Earth Crust' Adus Brooks London.
- 2) Davis W.M. (1909) - 'Geographical Essay' Ginnia Co.NewYork
- 3) Garland G.D. (1966) - 'Continental Drift' Uni. of Toronto press- Canada.
- 4) Goh Chengleong (2018) Certificate Physical and Human Geography, Oxford University Press, New Delhi
- 5) Majid Hussain (2001) - 'Principals of Physical Geography' Rawat Publication, Jaipur.
- 6) Monkhouse (1951) - 'Principle of Physical Geography' Mc Graw Hill Pub-New York.
- 7) Savindersingh (1998) - 'Physical Geography' Prayag Pub. Allahabad.
- 8) Steers J.A. (1958) - 'Earth Crust' Adus Brooks London
- 9) Strahler A.N. (1968) - 'Physical Geography' Easten P. Ltd. New Delhi
- 10) Tikka R. N. (1998)- 'Physical Geography' Keedar Nath Ram Nath &Co. Meerut
- 11) Wegner A. (1924) -'The Origin of Continents and Oceans' Mathhen & Co. Ltd. London.
- 12) प्रा.तावडे मो.द. - प्रा॒ृति॑ भू॒गोल, ॉन्टिनेन्टल प्र॒ाशन, पु॒णे-30.
- 13) प्रा.सु.प्र. दाते - प्रा॒ृति॑ भू॒गोल, विद्या प्र॒ाशन, ना॒ापूर.
- 14) प्रा. शेते पा. फुले प्रा. शहापूर र - प्रा॒ृति॑ भू॒गोल, अभिजीत पब्लि॑शन, लातूर.
- 15) डॉ. जय॒ुमार म॒ार - भूरूपशास्त्राची मूलतत्त्वे, ॉडेमि॑ एन्टरप्राइस, औरं॒ाबाद.
- 16) डॉ. जय॒ुमार म॒ार - प्रा॒ृति॑ भू॒गोल, ॉडेमि॑ एन्टरप्राइस, औरं॒ाबाद.
- 17) डॉ. विड्डल घारपूरे - प्रा॒ृति॑ भू॒गोल, पिंपळापुरे प्र॒ाशन, ना॒ापूर.

B. A. First Year
Subject: Geography
Semester – I
Paper- CCGEOG - II
An Introduction to Human Geography

Marks: 50

Credits: 02

Periods: 60

Salient Features

1. The aim of this course is to introduce the students with Human Geography and its various branches, evolution of human race and its classification and so on.

Utility

1. To help students to know the different races of the world and respect them for peaceful coexistence

Learning Objectives

1. To know the skills human adaptation to nature
2. To understand man environment relationship

Pre-requisites

1. Books, Maps, Globe, Models
 2. ICT
-

Unit: 1 Introduction

- A. Definition, Nature and Scope of Human Geography
- B. Branches of Human Geography
- C. Importance of study of Human Geography

Unit: 2 Human Races and Migration

- A. Evolution of Races
- B. Basis of Racial Classification and Distribution Major Races in the World

Unit: 3 Concepts of Man and Environmental Relationships

- A. Environmentalism or Determinism
- B. Possibilism
- C. Stop and Go Determinism

Unit: 4 Human Adaptations to Environment

- A. Eskimo – Cold Region
- B. Bushman – Hot Region
- C. Tribes of India –Naga, Bhill and Toda

References :-

- 1) Hagget Pether: Human Geography
- 2) Hussin M.: Human Geography 1994
- 3) Money D.S: Human Geography
- 4) Perpillou A.V: Human Geography, Longman, London- 1986
- 5) Robinson H: Human Geography, 1976
- 6) हुसेन माजीद, मानवी भू गोल, रावत पब्लिं शन्स, जयपूर.
- 7) शेते, फुले, शहापुर र - मानवी भू गोल, अभिजीत पब्लिं शन, लातूर.
- 8) जाधव, शहापुर र, अजरे - मानवी भू गोल, अभिजीत पब्लिं शन, लातूर.
- 9) विड्डल घारपूरे - मानवी भू गोल, पिंपळापुरे प्र शन, नाापूर.
- 10) ाळपे, चिम ांडे, शेंडो - मानवी भू गोल, अनुराधा पब्लिं शन, नांदेड.

B. A. First Year
Subject: Geography
Semester – I
Paper- CCGEOG - III
Practical Geography

Marks: 50

Credits: 02

Periods: 60

Salient Features

1. The aim of this course is to introduce the students with types of maps, scales, relief and landforms

Utility

1. To develop skills among the students to decipher the landforms using contours and to convert the scales

Learning Objectives

1. To develop abilities among the students to interpret the toposheets, calculate time using longitudes
2. To learn the techniques of showing the relief and landforms

Pre-requisites

1. Books, Maps, Globe, Models
 2. ICT
-

Unit: 1 Introduction to Maps and Scales

- A. Map: Meaning and Types
- B. Representation of Scale
 - i. Verbal/ Statement
 - ii. Numerical/ RF
 - iii. Linear/ Graphical
- C. Conversion of Scale
 - i. Verbal to Numerical and Numerical to Verbal
- D. Construction of Scale
 - i. Simple Scale
 - ii. Time and Distance Scale
 - iii. Diagonal Scale

Unit: 2 Methods of Showing Relief and Landforms

A. Relief

- i. Hachures, Layer Tint, Spot Height, Bench Mark, Trigonometric Point and Contours

B. Landforms

- i. Conical Hill, Plateau, Ridge, 'V' and 'U' Shaped Valley and Cliff
- ii. Identification of Slopes Using Contour Lines

Unit: 3 Study of Survey of India Maps:

- i. Conventional Signs and Symbols
- ii. Interpretation of Physical and Human Features
 - a. Relief, Drainage and Vegetation
 - b. Settlements, Transportation and Communication

Unit: 4 Coordinates and Graticules

- i. Latitudes and Longitudes
- ii. Local Time, Standard Time and Time Zones
- iii. International Date Line

Reference Books:

1. Khan, S.A. : Text Book of Practical Geography.
2. Mishra, R.P. & Ramesh, A. : Fundamentals of Cartography.
3. Monkhouse, F.J. & Wilkinson, H.R. : Maps and Diagrams.
4. Singh R.L. : Elements of Practical Geography.
5. शर्मा जे. पी. : प्रायोगिक भूगोल
6. डॉ. अर्जुन कुमार : प्रायोगिक भूगोल
7. डॉ. अहिरराव, डी. वाय. व प्रा. संजय ले डे. : प्रायोगिक भूगोल
8. डॉ. नागतोडे, लांजेवार : नशाशास्त्र व प्रायोगिक भूगोल, पिंपळापूर प्रशिक्षण, नागपूर.
9. नुरे, मानसी, मुगावे - प्रायोगिक भूगोल, अरुण प्रशिक्षण, लातूर.

B. A. First Year
Subject: Geography
Semester – II
Paper- CCGEOG - IV
Geomorphology

Marks: 50

Credits: 02

Periods: 60

Salient Features

1. The aim of this course is to introduce the students with interior of the earth, rocks, and endogenic and exogenic forces and their resultant landforms

Utility

1. To help students to know the evolutionary process of various features of landforms

Learning Objectives

1. To develop skills among the students to identify the landforms and their agents
2. To have the knowledge of types rocks and weathering

Pre-requisites

1. Books, Maps, Globe, Models, Rock Samples
 2. ICT
-

Unit: 1 Introduction

- A. Definition, Nature and Scope of Geomorphology
- B. Geomorphology and its Influence on – Settlement and Landuse

Unit: 2 Interior of the Earth, Rocks and Weathering

- A. Interior of the Earth
- B. Classification of Rocks According to Origin
 - i. Igneous
 - ii. Sedimentary
 - iii. Metamorphic
- C. Types of Weathering
 - i. Mechanical
 - ii. Chemical
 - iii. Biological

Unit: 3 Endogenic Forces

- A. Endogenic Forces
 - i. Types of Folds and Faults
 - ii. Earthquake - Meaning, Causes and Effects

Unit: 4 Exogenic Forces

- A. Cycle of Erosion
- B. Landforms Associated With
 - i. River
 - ii. Glacier
 - iii. Wind

References

- 1) Clyton. K. (1986) - 'Earth Crust' Adus Brooks London.
- 2) Davis W.M. (1909) - 'Geographical Essay' Ginnia Co.
- 3) Dayal P (1946) - 'A text book of Gemorphology' Shukla Book Depot Patana
- 4) Garland G.D. (1966) - 'Continental Drift' Uni. of Toronto press- Canada.
- 5) Hodgson J.H. (1964) - 'Earthquakes and Structure' Prentice Hall inc.
- 5) Kale V.A & Gupta (2001) - 'Elements of Geomorphology' Oxford Uni. Press
- 6) Majid Hussain (2001) - 'Principals of physical Geography' 'Rawat; Publication, Jaipur
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- 9) Savindersingh (1998) - 'Physical Geography' Prayag Pub. Allahabad.
- 10) Strahler A.N. (1968) - 'Physical Geography' Easten P. Ltd. New Delhi.
- 11) Steers J.A. (1958) - 'Earth Crust' Adus Brooks London
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- 13) Wooldridge & Morgan (1966) - 'An Outline of Gemorphology' Longman London.
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- 15) मार जयुमार - भूरूपशास्त्र, विद्या प्रॉशन, नागपूर.
- 16) फुले सुरेश - भूरूपशास्त्र, विद्याभारती प्रॉशन, लातूर.
- 17) घारपुरे विठ्ठल - भूरूपशास्त्र, पिंपळापुरे प्रॉशन, नागपूर.
- 18) दाते सु.प्र. आर्ि दाते संजिवनी - प्रांतिं भूगोल, विद्या प्रॉशन, नागपूर.
- 19) शेटे, फुले, शहापूर र - प्रांतिं भूगोल, अभिजीत पब्लिशेन, लातूर.
- 20) डॉ. डी.जी. भोगे, भूरूप शास्त्र, अरुणा प्रकाशन, लातूर.

B. A. First Year
Subject: Geography
Semester – II
Paper- CCGEOG - V
Population Geography

Marks: 50

Credits: 02

Periods: 60

Salient Features

1. The aim of this course is to introduce the students with dynamics of population geography, its nature and scope

Utility

1. To help students to understand the factors affecting on growth and distribution of population

Learning Objectives

1. To study the phases of transition of population growth
2. To study structure and composition of population with reference to India

Pre-requisites

1. Books, Maps, Globe, Models, Census Report
 2. ICT
-

Unit: 1 Meaning and Field of Population Geography

- A. Definition, Nature and Scope of Population Geography
- B. Relationship of Population Geography with Other Social Sciences
- C. Importance of Study of Population Geography

Unit: 2 Population Growth and Distribution

- A. Factors Affecting on Growth of Population
- B. Population Growth in the World with Special Reference to India
- C. Factors Affecting on Distribution of Population
- D. Distribution of Population in the World with Special Reference to India

Unit: 3 Population Theory and Migration

- A. Demographic Transition Theory
- B. Causes and Types of Migration

Unit: 4 Attributes and Structure of Population

- A. Birth rate and Death rate of Population in India
- B. Age and Sex Composition of Population in India
- C. Literacy in India

References :-

1. Beaujeu Gamier : Geography of Population, Longman, London-1978
2. Clarke J.I. : Population Geography, Pergamon Press Oxford – 1972
3. Chandana R.C. : Geography of Population, Kalyani Pub. Ludhiana 1988
4. Ghosh B.N. : Fundamentals of Population Geography
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6. Perpillon A.V. : Human Geography, Longman, London- 1986
7. Robinson H. : Human Geography, 1976
8. Mishra & Puri : Indian Economy 2004
9. Hassan Mohammed I. : Population Geography, 2005
10. Bhende Asha & Kanitkar Tara : Principles of Population Studies
11. Sawant S.B. & Athavale A.S. Population Geography, Mehta Publishing House, Pune
12. अहिरराव आलझड - लो सं या भू गोल.
13. विड्डल धारपुरे - लो सं या भू गोल, पिंपळापुरे प्र ाशन, नाापूर.
14. शेटे, फुले, शहापूर र - लो सं या भू गोल, अभिजीत प्र ाशन, लातूर.
15. माजीद हुसेन - मानवी भू गोल, रावत पब्लि ेशन, जयपूर.
16. राठोड, चव्हाा - लो सं या भू गोल, रावीर पब्लि ेशन, परभ गी.

B. A. First Year
Subject: Geography
Semester – II
Paper- CCGEOG - VI
Practical Geography

Marks: 50

Credits: 02

Periods: 60

Salient Features

1. The aim of this course is to introduce the students with different types of population density and skills to interpret them

Utility

1. To help students to project, analyze and plan the population growth

Learning Objectives

1. To develop the skills among the students to interpret the results using representation tools

Pre-requisites

1. Books, Maps, Globe, Models
 2. ICT
-

Unit: 1 Density and Growth of Population

A: Density of Population

- i. Arithmetic Density
- ii. Agricultural Density

Interpretation of Results Using Dot Method or Bar Graph

B: Growth of Population

- i. Population Growth Rate
 - ii. Average Annual Population Growth Rate
 - iii. Population Projection – Arithmetic and Geometric Methods
- Interpretation of the Results Using Line Graph or Bar Graph

Unit: 2 Birth and Death Rate

A: Birth Rate

- i. Crude Birth Rate
- ii. Standard Birth Rate

Interpretation of the results

B: Death Rate

- i. Crude Death Rate
- ii. Age Specific Death Rate

Interpretation of the results

Unit: 3 Representations of Population Data

- i. Bar Graphs: Simple, Multiple
 - ii. Line Graphs: Simple, Multiple
 - iii. Age and Sex Pyramid
- Interpretation of the results

Reference Books:

1. Khan, S.A. : Text Book of Practical Geography.
2. Mishra, R.P. & Ramesh, A. : Fundamentals of Cartography.
3. Monkhouse, F.J. & Wilkinson, H.R. : Maps and Diagrams.
4. Singh R.L. :Elements of Practical Geography.
5. शर्मा जे. पी.: प्रायोगिक भूगोल
6. डॉ. अर्जुन कुमार :प्रायोगिक भूगोल
7. डॉ. अहिरराव, डी. वाय. व प्रा. संजय ले डे. : प्रायोगिक भूगोल
8. डॉ. नातोटडे, लांजेवार : नैऋतशास्त्र व प्रायोगिक भूगोल, पिंपळापूर प्रकाशन, नागपूर.
9. नातोटडे, मानसी, मुगावे - प्रायोगिक भूगोल, अरुण प्रकाशन, लातूर.

* * * * *

॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

“Dnyanteerth”, Vishnupuri, Nanded - 431606 Maharashtra State (INDIA)

Established on 17th September 1994 – Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



ACADEMIC (1-BOARD OF STUDIES) SECTION

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Website: www.srtmun.ac.in

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संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे CBCS Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ३० एप्रिल २०१९ रोजी संपन्न झालेल्या ४३व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.५/४३-२०१९ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्यात येत आहेत.

- १) बी.ए.—प्रथम वर्ष—इंग्रजी (अनिवार्य, अतिरिक्त (द्वितीय भाषा), फंक्शनल इंग्रजी, ऐच्छिक)
- २) बी.ए.—प्रथम वर्ष—हिंदी (द्वितीय भाषा, ऐच्छिक)
- ३) बी.ए.—प्रथम वर्ष—मराठी (द्वितीय भाषा, ऐच्छिक)
- ४) बी.ए.—प्रथम वर्ष—पाली (द्वितीय भाषा, ऐच्छिक)
- ५) बी.ए.—प्रथम वर्ष—संस्कृत (द्वितीय भाषा, ऐच्छिक)
- ६) बी.ए.—प्रथम वर्ष—उर्दू (द्वितीय भाषा, ऐच्छिक)
- ७) बी.ए.—प्रथम वर्ष—अर्थशास्त्र
- ८) बी.ए.—प्रथम वर्ष—भूगोल
- ९) बी.ए.—प्रथम वर्ष—इतिहास
- १०) बी.ए.—प्रथम वर्ष—सैनिकशास्त्र
- ११) बी.ए.—प्रथम वर्ष—तत्त्वज्ञान
- १२) बी.ए.—प्रथम वर्ष—राज्यशास्त्र
- १३) बी.ए.—प्रथम वर्ष—मानसशास्त्र
- १४) बी.ए.—प्रथम वर्ष—लोकप्रशासन
- १५) बी.ए.—प्रथम वर्ष—समाजशास्त्र
- १६) बी.ए.—प्रथम वर्ष—अॅडमिनिस्ट्रेटिव्ह सर्व्हिस

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक—०१/परिपत्रक/पदवी—सीबीसीएस अभ्यासक्रम/
२०१९-२०/६६

दिनांक : १७.०६.२०१९.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

स्वाक्षरित /—

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग



स्वामी रामानंद तीर्थ मराठवाडा विश्वविद्यालय, नांदेड
'ज्ञानतीर्थ' विष्णुपुरी, नांदेड

पदवी प्रथम वर्ष हिन्दी पाठ्यक्रम

नवीन सत्र पध्दती + C.B.C.S. पॅटर्न

स्नातक स्तर

जून २०१९ से प्रारंभ

स्वामी रामानंद तीर्थ मराठवाडा विश्वविद्यालय, नांदेड

स्नातक प्रथम वर्ष पाठ्यक्रम तथा कार्यभार वितरण

विषय : हिंदी (बी.ए.,बी.कॉम.,बी.एससी.एवं अन्य स्नातक प्रथम वर्ष के लिए)

श्रेयांक पध्दति (CBCS Pattern) पाठ्यक्रम

हिंदी ऐच्छिक और द्वितीय भाषा (Second Language)

शैक्षणिक वर्ष : २०१९-२० (जून २०१९ से आरंभ)

सत्र (Semester)	प्रश्नपत्र क्र (Paper No.)	प्रश्नपत्र का नाम (Name of the Paper)	सप्ताह की तासिका (Periods of Week)	पूर्ण तासिकाएँ (Total Periods)	निरंतर मूल्यांकन (CA)	सत्रांत परीक्षा (ESE)	कुल अंक (Total Marks)	श्रेयांक (Credits)
प्रथम सत्र I	I	कथा साहित्य	04	55	35	40	75	03
	II	नाटक तथा एकांकी	04	55	35	40	75	03
	S.L.I	साहित्य भारती (SL)	04	55	35	40	75	03
		Total = I	12	165	105	120	225	09
द्वितीय सत्र II	III	कथा साहित्य	04	55	35	40	75	03
	IV	नाटक तथा एकांकी	04	55	35	40	75	03
	S.L.II	साहित्य भारती (S.L.)	04	55	35	40	75	03
		Total = II	12	165	105	120	225	09
		Total = I+II	24	330	210	240	450	18

कथा साहित्य

उद्देश्य :

- १) हिंदी साहित्य की कहानी और उपन्यास विधा से छात्रों को परिचित कराना।
- २) कथा साहित्य की लेखन शैली से परिचित कराना।
- ३) कथा साहित्य के माध्यम से छात्रों की चिंतन तथा लेखन कौशल की क्षमता को विकसित करना।
- ४) विविध पात्रों की मानसिकता एवं क्रिया कलापों से छात्रों में सही और गलत को परखने की क्षमता विकसित करना।
- ५) कथा साहित्य के माध्यम से छात्रों को विविध समस्याओं से अवगत कर उन समस्याओं के समाधान के लिए उन्हें प्रेरित करना।

महत्व :

मनुष्य के जीवन में कथाओं की परंपरा का महत्वपूर्ण स्थान रहा है। आज हिंदी कथा साहित्य में कहानी और उपन्यास विधा मनुष्य की बौद्धिक तथा मानसिक क्षमता को परिष्कृत कर उन्हें समाज एवं राष्ट्रहित की ओर प्रेरित करने में महत्वपूर्ण भूमिका निभा रही है। युवा शक्ति को राष्ट्र विकास के लिए महत्वपूर्ण माना जाता है। अतः कहानी और उपन्यास के अध्ययन से एक ओर छात्रों को रचनाकारों की लेखन शैली का ज्ञान होता है तो दूसरी ओर कथा साहित्य में वर्णित विविध समस्याओं की जानकारी मिलती है और उन समस्याओं के समाधान के लिए एक निश्चित दिशा मिलती है। कथा साहित्य छात्रों को नैतिक मूल्यों की रक्षा कर उन्हें प्रचारित करने के लिए प्रेरित करता है। इतना ही नहीं तो उनमें उचित अनुचित को परखने की क्षमता निर्माण करता है।

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड
बी.ए. प्रथम वर्ष ऐच्छिक हिंदी
नूतन पाठ्यक्रम सत्र पध्दति + C.B.C.S. पॅटर्न
प्रथम सत्र (Semester I) प्रश्नपत्र क्र. I
(कथा साहित्य)

Credits : 03

ESE-40 Marks and C.A. 35 Marks = अंक ७५

तासिका : ५५

पाठ्यक्रम

खण्ड क)	उपन्यास खंजन नयन : अमृतलाल नागर : राजपाल एण्ड सन्स, कश्मिरी गेट, दिल्ली	तासिका : २५
खण्ड ख)	कहानियाँ १) उसने कहा था चंद्रधर शर्मा गुलेरी २) सुजान भगत प्रेमचंद ३) पुरस्कार जयशंकर प्रसाद ४) खेल जैनेंद्रकुमार ५) मलबे का मालिक मोहन राकेश ६) गेंद चित्रा मुद्गल	तासिका : २०
खण्ड ग)	अंतर्गत मूल्यांकन (C.A.) अंक : ३५ १) कक्षा परीक्षा २ (१०+१०)अंक २० २) स्वाध्याय अंक १५	तासिका : १०

प्रश्नपत्र का प्रारूप :

प्रश्न १ उपन्यास पर विकल्प के साथ दीर्घोत्तरी प्रश्न	अंक : १५
प्रश्न २ कहानियों पर विकल्प के साथ दीर्घोत्तरी प्रश्न	अंक : १५
प्रश्न ३ टिप्पणी :	
क) उपन्यास पर विकल्प के साथ टिप्पणी	अंक : ०५
ख) कहानियों पर विकल्प के साथ टिप्पणी	अंक : ०५

४०
अंतर्गत मूल्यांकन : ३५

कुल अंक ७५

नाटक तथा एकांकी

उद्देश्य :

- १) नाटक और एकांकी विधा से परिचित करना ।
- २) नाटक के प्रति छात्रों में रूचि उत्पन्न करना ।
- ३) संवाद लेखन-वाचन कौशल का विकास करना ।
- ४) रंगमंच से संबंधित जानकारी छात्रों को देना ।
- ५) अभिनय के प्रति आकर्षण निर्माण करना ।

महत्व :

नाटक और एकांकी दृक-श्राव्य माध्यम की अत्यंत प्राचीन साहित्य विधा है। जिसमें भाव-भावना और विचारों का प्रतिपादन पात्राभिनय द्वारा होता है। इस विधा ने कई महत्वपूर्ण ऐतिहासिक तथ्य और युगपुरुषों की जीवनियों को युगानुरूप प्रस्तुत किया है। दृक-श्राव्य विधा होने के कारण दर्शकों को रसानुभूति दिलाने में सहायता करती है। भारतेंदू तथा उनके समकालीन नाटककारों ने लोकचेतना के विकास के लिए नाटक और एकांकियों का निर्माण किया। सामाजिक समस्याओं की अभिव्यक्ति करने का एक सशक्त और प्रभावी माध्यम नाटक और एकांकी है। इनके अध्ययन से मनोरंजन के साथ अभिनय और लेखन के क्षेत्र में रोजगार की उपलब्धि भी होती है।

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड
बी.ए. प्रथम वर्ष ऐच्छिक हिंदी
नूतन पाठ्यक्रम सत्र पध्दति + C.B.C.S. पॅटर्न
प्रथम सत्र (Semester I) प्रश्नपत्र क्र. II
(नाटक तथा एकांकी)

Credits : 03

ESE-40 Marks and C.A. 35 Marks = अंक ७५

तासिका : ५५

पाठ्यक्रम

खण्ड क)	नाटक धरती आबा : ऋषिकेश सुलभ : राजकमल प्रकाशन, प्रा.लि. नेताजी सुभाष मार्ग, नई दिल्ली	तासिका : २५
खण्ड ख)	एकांकी १) सीमा रेखा विष्णु प्रभाकर २) पृथ्वीराज की आँखे (भाग २) डॉ. रामकुमार वर्मा ३) अशोक वन लक्ष्मीनारायण मिश्र ४) नये मेहमान उदयशंकर भट्ट ५) रीड की हड्डी जगदीशचंद्र माथुर	तासिका : २०
खण्ड ग)	अंतर्गत मूल्यांकन (C.A.) अंक : ३५ १) कक्षा परीक्षा २(१०+१०)अंक २० २) स्वाध्याय अंक १५	तासिका : १०

प्रश्नपत्र का प्रारूप :

प्रश्न १ नाटक पर विकल्प के साथ दीर्घोत्तरी प्रश्न	अंक : १५
प्रश्न २ एकांकियों पर विकल्प के साथ दीर्घोत्तरी प्रश्न	अंक : १५
प्रश्न ३ टिप्पणी :	
क) नाटक पर विकल्प के साथ टिप्पणी	अंक : ०५
ख) एकांकियों पर विकल्प के साथ टिप्पणी	अंक : ०५

४०

अंतर्गत मूल्यांकन : ३५

कुल अंक ७५

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड
बी.ए. प्रथम वर्ष ऐच्छिक हिंदी
नूतन पाठ्यक्रम सत्र पध्दति + C.B.C.S. पॅटर्न
द्वितीय सत्र (Semester II) प्रश्नपत्र क्र. III
(कथा साहित्य)

Credits : 03

ESE-40 Marks and C.A. 35 Marks = अंक ७५

तासिका : ५५

पाठ्यक्रम

खण्ड क)	उपन्यास पचपन खंबे लाल दिवारे : उषा प्रियवंदा राजकमल प्रकाशन, नई दिल्ली	तासिका : २५
खण्ड ख)	कहानियाँ १) निर्वासित सूर्यबाला २) कोसी का घटवार शेखर जोशी ३) गृह प्रवेश शालीनी ४) अकाल मृत्यु स्वयंप्रकाश ५) सबसे कठीन काम मधु कांकरिया ६) साहब फिर कब आएंगे माँ ? दामोदर खडसे	तासिका : २०
खण्ड ग)	अंतर्गत मूल्यांकन (C.A.) अंक : ३५ १) कक्षा परीक्षा २ (१०+१०) अंक १० २) स्वाध्याय अंक १५	तासिका : १०

प्रश्नपत्र का प्रारूप :

प्रश्न १ उपन्यास पर विकल्प के साथ दीर्घोत्तरी प्रश्न	अंक : १५
प्रश्न २ कहानियों पर विकल्प के साथ दीर्घोत्तरी प्रश्न	अंक : १५
प्रश्न ३ टिप्पणी :	
क) उपन्यास पर विकल्प के साथ टिप्पणी	अंक : ०५
ख) कहानियों पर विकल्प के साथ टिप्पणी	अंक : ०५

४०
अंतर्गत मूल्यांकन : ३५

कुल अंक ७५

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड
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नूतन पाठ्यक्रम सत्र पध्दति + C.B.C.S. पॅटर्न
द्वितीय सत्र (Semester II) प्रश्नपत्र क्र. IV
(नाटक तथा एकांकी)

Credits : 03

ESE-40 Marks and C.A. 35 Marks = अंक ७५

तासिका : ५५

पाठ्यक्रम

खण्ड क)	नाटक	तासिका : २५
	अभंग गाथा : नरेंद्र मोहन : जगताराम एण्ड सन्स, ९/२३१ मेन रोड, गांधी नगर, दिल्ली-११००३१	
खण्ड ख)	एकांकी	तासिका : २०
	१) कालपुरुष और अजन्ता लक्ष्मीनारायण लाल की नर्तकी	
	२) चरवाहे उपेन्द्रनाथ अशक	
	३) बहू की बिदा विनोद रस्तोगी	
	४) बा और बापू रामनरेश त्रिपाठी	
	५) शहादत रंगनाथ तिवारी	
खण्ड ग)	अंतर्गत मूल्यांकन (C.A.) अंक : ३५	तासिका : १०
	१) कक्षा परीक्षा २ (१०+१०) अंक २०	
	२) स्वाध्याय अंक १५	

प्रश्नपत्र का प्रारूप :

प्रश्न १ नाटक पर विकल्प के साथ दीर्घोत्तरी प्रश्न	अंक : १५
प्रश्न २ एकांकियों पर पर विकल्प के साथ दीर्घोत्तरी प्रश्न	अंक : १५
प्रश्न ३ टिप्पणी :	
क) नाटक पर विकल्प के साथ टिप्पणी	अंक : ०५
ख) एकांकियों पर विकल्प के साथ टिप्पणी	अंक : ०५

४०
अंतर्गत मूल्यांकन : ३५

कुल अंक ७५

साहित्य भारती S.L.

उद्देश :

- १) द्वितीय भाषा के रूप में छात्रों को हिंदी भाषा और साहित्य का सामान्य परिचय देना।
- २) कालानुरूप कहानी और काव्य में आये परिवर्तन को समझना।
- ३) कहानी और काव्य के माध्यम से छात्रों को परिष्कृत करना।
- ४) छात्रों को हिंदी के व्याकरणिक ज्ञान से अवगत कराना।
- ५) हिंदी भाषा के प्रति छात्रों में रूचि उत्पन्न करना।
- ६) रचनाओं में व्यक्त समस्याओं के समाधान के लिए छात्रों को प्रेरित कर नैतिक मूल्यों को स्थापित करना।

महत्व :

साहित्य जीवन का पथदर्शक है। वह मनुष्य के जीवन में सकारात्मक और रचनात्मक परिवर्तन लाने की क्षमता रखता है। इस दृष्टि से सामान्य हिंदी का अध्ययन कर विविध संकायों में पढ रहे छात्रों में हिंदी भाषा एवं साहित्य के प्रति रूचि उत्पन्न होती है। उन्हें व्याकरणिक हिंदी का ज्ञान प्राप्त होता है। इतना ही नहीं तो हिंदी कहानियाँ और कविताएँ उनके मन मस्तिष्क को परिष्कृत करने में साह्यता करती है। वे पठित रचनाओं के माध्यम से विविध समस्याओं से परिचित हो जाते हैं। और उन समस्याओं के समाधान के लिए प्रयासरत रहते हैं।

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड
बी.ए., बी.कॉम., बी.एस्सी. प्रथम वर्ष द्वितीय भाषा हिंदी (SL)
नूतन पाठ्यक्रम सत्र पध्दति + C.B.C.S. पॅटर्न
प्रथम सत्र (Semester I) प्रश्नपत्र क्र. I
(साहित्य भारती)

Credits : 03

ESE-40 Marks and C.A. 35 Marks = अंक ७५

तासिका : ५५

पाठ्यक्रम

खण्ड क)	कहानी विभाग	तासिका : २०
	१) एक टोकरीभर मिट्टी माधवराव सप्रे	
	२) ठाकूर का कुआ प्रेमचंद	
	३) ममता जयशंकर प्रसाद	
	४) गुलकी बन्नो धर्मवीर भारती	
	५) ढाई बीघा जमीन मृदुला सिन्हा	
	६) शिक्का बदल गया कृष्णा सोबती	
खण्ड ख)	काव्य विभाग	तासिका : २०
	१) बाँधो न नाव इस ठाँव बंधु निराला	
	२) सखी, वे मुझसे कहकर जाते मैथिलीशरण गुप्त	
	३) वीरों का कैसा हो बसंत सुभद्राकुमारी चौहान	
	४) हरि घाँस पर क्षण भर अज्ञेय	
	५) प्याला हरिवंशराय बच्चन	
	६) गीत नया गाता हूँ अटल बिहारी वाजपेयी	
खण्ड ग)	प्रयोजनमूलक हिंदी वृत्तांत लेखन : प्रारूप और उदाहरण	तासिका : ०५
खण्ड घ)	अंतर्गत मूल्यांकन (C.A.) अंक ३५	तासिका १०
	१) कक्षा परीक्षा २ (१०+१०) अंक २०	
	२) स्वाध्याय अंक १५	

प्रश्नपत्र का प्रारूप :

प्रश्न १ कहानी पर विकल्प के साथ दीर्घोत्तरी प्रश्न	अंक : १५
प्रश्न २ काव्य पर विकल्प के साथ दीर्घोत्तरी प्रश्न	अंक : १५
प्रश्न ३ खण्ड ग विकल्प के साथ प्रश्न	अंक : १०

४०

अंतर्गत मूल्यांकन : ३५

कुल अंक

७५

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड
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नूतन पाठ्यक्रम सत्र पध्दति + C.B.C.S. पॅटर्न
द्वितीय सत्र (Semester II) प्रश्नपत्र क्र. II
(साहित्य भारती)

Credits : 03

ESE-40 Marks and C.A. 35 Marks = अंक ७५

तासिका : ५५

पाठ्यक्रम

खण्ड क)	कहानी विभाग	तासिका : २०
१)	शैलेश मटियानी	उसने तो नहीं कहा था
२)	आशिर्वाद	सुषमासिंह
३)	जरा समझो	सुशीला टाकभोरे
४)	बेठन	निरजा माधव
५)	मंडन मिसिर की खुरपि	सूर्यनाथ सिंह
६)	हत्या	बरखा शर्मा
खण्ड ख)	काव्य विभाग	तासिका : २०
१)	यह वह भारतवर्ष नहीं	उदय प्रताप
२)	माँ के लिए ससुराल जाने से पहले	निर्मला पुतुल
३)	जब भी औरत ने अपनी सीमा-रेखा को पार किया	जहिर कुरेशी
४)	चुनाव	अनुजप्रतापसिंह
५)	सपना	कर्मानंद आर्य
६)	मारे जाएंगे	राजेश जोशी
खण्ड ग)	प्रयोजनमूलक हिंदी पत्र लेखन : स्वरूप एवं प्रारूप, आवेदनपत्र, पारिवारिक पत्र	तासिका: ०५
खण्ड घ)	अंतर्गत मूल्यांकन (C.A.) अंक ३५ ७) कक्षा परीक्षा २ (१०+१०) अंक २० ८) स्वाध्याय अंक १५	तासिका १०

प्रश्नपत्र का प्रारूप :

प्रश्न १ कहानी पर विकल्प के साथ दीर्घोत्तरी प्रश्न	अंक : १५
प्रश्न २ काव्य पर विकल्प के साथ दीर्घोत्तरी प्रश्न	अंक : १५
प्रश्न ३ खण्ड 'ग' विकल्प के साथ प्रश्न	अंक : १०



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड— ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

Established on 17th September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



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संलग्नित महाविद्यालयातील सी.बी.सी.एस.
पॅटर्नचा बी.ए. इतिहास (प्रथम वर्ष)
अभ्यासक्रम शैक्षणिक वर्ष २०१६-१७
पासून लागू करण्याबाबत.

परिपत्रक

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक १२ मे २०१६ रोजी संपन्न झालेल्या ३६व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.१०/३६-२०१६ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील सामाजिक शास्त्रे विद्याशाखेतील खालील विषयाचा सी.बी.सी.एस. पॅटर्नचा अभ्यासक्रम शैक्षणिक वर्ष २०१६-१७ पासून लागू करण्यात येत आहे.

१. बी.ए. इतिहास (प्रथम वर्ष)

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक(१)/परिपत्रक/पदवी—सीबीसीएस अभ्यासक्रम/
२०१६-१७/१०१०

दिनांक : २५.०८.२०१६.



स्वाक्षरित/—

संचालक

महाविद्यालय व विद्यापीठ विकास मंडळ

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. परीक्षा नियंत्रक यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.



स्वामी रामानंद तीर्थ
मराठवाडा विद्यापीठ, नांदेड.

**SWAMI RAMANAND TEERTH
MARATHWADA UNIVERSITY,
NANDED**

***SYLLABUS*
HISTORY**

Semester Pattern

(Choice Base Credit System)

B.A. FIRST YEAR

(With Effective from 2016-17)

Swami Ramanand Teerth Marathwada
University, Nanded

CHOICE BASED CREDIT SYSTEM (CBCS)

SEMESTER PATTERN

B.A. (UG) Programme under Faculty of Social Sciences

(Affiliated Colleges)

(With Effect from Academic Year 2016-17)

Name of the Faculty: **Social Sciences**

Total Credit: **158**

Average Credits Per Semester: **26**

Note:

- Assessment Shall Consist of Continuous Assessment (CA) and End of Semester Examination (ESE)
- Weightage : % for ESE & % for CA
- Each Paper is of 3 Credits
- **Paper- (Elective) Transfer of Credit as per Student choice.**

Swami Ramanand Teerth Marathwada University, Nanded

Choice Based Credit System (CBCS) Course Structure (New scheme)

Faculty of Social Sciences

B. A. First Year Syllabus

Semester Pattern, effective from 2016-17

Subject: HISTORY

Semester	Core Course	Paper No.	Name of Paper	Lectures/Week	Total No. of Lectures	CA	ESE	Total Marks	Credits
Semester -I	CCHIS-I	I	History of Ancient India OR History of Indian Culture	4	55	35	40	75	3
			History of India OR History of South India	4	55	35	40	75	3
	Total			8	110	70	80	150	6
Semester-II	CCHIS-I	III	History of Ancient India OR History of Indian Culture	4	55	35	40	75	3
			History of India OR History of South India	4	55	35	40	75	3
	Total			8	110	70	80	150	6
	Total-I & II			16	220	140	160	300	12

Swami Ramanand Teerth Marathwada University, Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)
Faculty of Social Sciences
B. A. Second Year Syllabus
Semester Pattern, effective from 2017-18

Subject: HISTORY

Semester	Core Course	Paper No.	Name of Paper	Lectures/ Week	Total No. of Lectures	CA	ESE	Total Marks	Credits
Semester. III	CCHIS-I	V	History of Medieval India OR History of Ambedkarite Movement	4	55	35	40	75	3
	CCHIS-II	VI	History of British India OR History of Maratha	4	55	35	40	75	3
	SEC-I			3	45	25	25	50	2
			Total	11	155	95	105	200	8
Semester. IV	CCHIS-I	VII	History of Medieval India OR History of Ambedkarite Movement	4	55	35	40	75	3
	CCHIS-II	VIII	History of British India OR History of Maratha	4	55	35	40	75	3
	SEC-II			3	45	25	25	50	2
			Total	11	155	95	105	200	8
			Total III & IV	22	310	215	185	400	16

Swami Ramanand Teerth Marathwada University, Nanded

Choice Based Credit System (CBCS) Course Structure (New scheme)

Faculty of Social Sciences

B. A. Third Year Syllabus

Semester Pattern, effective from 2018-19

Subject: HISTORY

Semester		Paper No.	Name of Paper	Lectures/ week	Total No.of Lectures	AC	ESE	Total Marks	Credits
Semester- V	CCHIS-A	IX	History of Modern India OR History of Marathwada OR History of Modern World	4	55	35	40	75	3
	CCHIS-B	X	India after Independence OR Socio-religious reform movements in India OR Archaeology and Tourism	4	55	35	40	75	3
	CCHIS-C	XI	History of Modern Maharashtra OR Womens in Indian History OR History of SAARC countries	4	55	35	40	75	3
	SEC-III			3	45	25	25	50	2
				TOTAL	15	210	130	145	275

Semester		Paper No.	Name of Paper	Lectures/ week	Total No.of Lectures	AC	ESE	Total Marks	Credits
Semester- VI	CCHIS-A	XII	History of Modern India OR History of Marathawada OR History of Modern World	4	55	35	40	75	3
	CCHIS-B	XIII	India after Independence OR Socio-religious reform movements in India OR Archaeology and Tourism	4	55	35	40	75	3
	CCHIS-C	XIV	History of Modern Maharashtra OR Womens in Indian History OR History of SAARC countries	4	55	35	40	75	3
	SEC-III			3	45	25	25	50	2
			TOTAL	15	210	130	145	275	11
			TOTAL (V-VI)	30	420	285	265	550	22

Structure of B.A. Programme under CBCS Pattern

(Social Sciences & Arts & Humanities Faculty)

Semester	CORE COURSE(12)	Ability Enhancement Compulsory Courses (AEC) (8)	Skill Enhancement Courses (SEC) (4)	Discipline Specific Elective DSE (6)	Generic Elective (6)
	CC-A I- 6	1 .English - 3			
I	CC-B I-6	Communication			
Credits : 24	CC-C I-6	2. SL - 3			
II	CC- A II-6	1 .English - 3			
Credits : 24	CC- B II-6	Communication			
	CC- C II-6	2. SL - 3			
III	CC- A III-6	2 .English - 3	SEC-I - 2		
Credits : 26	CC- B III-6	Communication			
	CC- C III-6	3. SL - 3			
IV	CC- A IV-6	2 .English - 3	SEC-II - 2		
Credits : 26	CC- B IV-6	Communication			
	CC- C IV-6	3. SL - 3			
V				DSE- A I - 6	GE-A I - 3
Credits : 29			SEC-III- 2	DSE- B I - 6	GE-B I - 3
				DSE- C I - 6	GE-C I - 3
VI				DSE- A II- 6	GE-A II-3
Credits : 29			SEC-IV- 2	DSE- B II- 6	GE-B II-3
				DSE- C II- 6	GE-C II-3
TotalCredits :158	No. Credits: 72	No. Credits: 24	No. Credits: 8	No. Credits: 36	No. Credits: 18

**Structure of B.A. programme under CBCS Pattern
(Social Sciences & Arts & Humanities Faculty)**

Semester	Course Opted	Course Name	Credits	
I	Ability enhancement compulsory course- I	1.English Communication 2..SL	03 03	
	Core Course A-I	Paper A & B	06	
	Core Course B-I	Paper A & B	06	
	Core Course C-I	Paper A & B	06	
	Total Sem I			24
II	Ability enhancement compulsory course- II	1. English Communication 2. SL	03 03	
	Core Course A-II	Paper A & B	06	
	Core Course B-II	Paper A & B	06	
	Core Course C-II	Paper A & B	06	
	Total Sem II			24
	Total Sem I & II			48
Semester	Course Opted	Course Name	Credits	
III	Ability enhancement compulsory course- III	1. English communication 2. SL	03 03	
	Core Course A-III	Paper A & B	06	
	Core Course B-III	Paper A & B	06	
	Core Course C-III	Paper A & B	06	
	Skill enhancement course I	SEC-I	02	
	Total Sem III			26
IV	Ability enhancement compulsory course- IV	1. English communication 2. SL	03 03	
	Core Course A-IV	Paper A & B	06	
	Core Course B- IV	Paper A & B	06	
	Core Course C- IV	Paper A & B	06	
	Skill enhancement course- II	SEC-I	02	
	Total Sem. IV			26
Total (Sem III & IV)			52	
Semester	Course Opted	Course Name	Credits	
V	Discipline Specific Elective A-I	DSE A- I	06	
	Discipline Specific Elective B-I	DSE B- I	06	
	Discipline Specific Elective C-I	DSE C- I	06	
	Generic Elective GE -A I	GE -A I	03	
	Generic Elective GE -B I	GE -B I	03	
	Generic Elective GE -C I	GE -C I	03	
	Skill enhancement course III	SEC-III	02	
Total Sem V			29	
IV	Discipline Specific Elective A-II	DSE A- II	06	
	Discipline Specific Elective B-II	DSE B- II	06	
	Discipline Specific Elective C-II	DSE C- II	06	
	Generic Elective GE -A II	GE -A II	03	
	Generic Elective GE -B II	GE -B II	03	
	Generic Elective GE -C II	GE -C II	03	
	Skill enhancement course IV	SEC-IV	02	
Total Sem. VI			29	
Total (Sem. V & VI)			58	
Total Course Credit			158	

**SWAMI RAMANAND TEERTH MARATHWADA
UNIVERSITY, NANDED**

CBCS Pattern in the Subject of

HISTORY

B.A. First Year

(Effective from 2016-17)

SEMESTER-I

Paper No.	Title of the Paper	Internal Marks	External Marks
I	History of Ancient India (Up to 647 A.D.) OR History of Indian Culture (Up to 647 A.D.)	35	40
II	History of India (648 – 1526 A.D.) OR History of South India (Up to 1318 A.D.)	35	40
SEMESTER-II			
Paper No.	Title of the Paper	Internal Marks	External Marks
III	History of Ancient India (Up to 647 A.D.) OR History of Indian Culture (Up to 647 A.D.)	35	40
IV	History of India (648 – 1526 A.D.) OR History of South India (Up to 1318 A.D.)	35	40
1) Internal Marks		35 Marks	
2) External Marks		40 Marks	

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,
NANDED**

History

(With Effective from 2016-17)

B.A. First Year

SEMESTER - I

History of Ancient India (Up to 647 A.D.) Paper - I

Credits: 03

Periods: 55

Marks: 75

	Period	Marks
1) Sources Archaeological and literary sources	12	15
2) Stone Age & Indus valley Civilization Stone Age - Various stages. Indus valley Civilization - Discovery Sites of Excavation, Town planning	16	20
3) Vedic Age Vedic and post Vedic Age-Political, Social Religious and Economic life.	15	20
4) Buddhist India Sixteenth Mahajanpadas and Philosophy of Jain and Bouddha Religion.	12	20

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,
NANDED**

History

(With Effective from 2016-17)

B.A. First Year

SEMESTER - II

History of Ancient India (Up to 647 A.D.) Paper - III

Credits: 03

Periods: 55

Marks: 75

	Period	Marks
1) Mourya Empire Chandragupta Mourya - career and Achievements. Ashoka - Career and Achievements.	12	20
2) Satvahan Dynasty Satvahan, Goutamiputra Satkarni- Administration.	11	10
3) Gupta and Vakatak Empire 1) Gupta Eempire - Chandragupta - I , Samudragupta, Chandragupta- II, Golden age of India, Decline of Empire. 2) Vakatak - Rudrasen-II, Harisen.	16	25
4) Vardhan and Chalukya Dynasty 1) Vardhan Dynasty-Prabhakarvardhan-Rajyavardhan – Harshavardhan - Career and achievements. 3) Chalukya of Badami - Pulkeshi - I, Kirtivarman, Pulkeshi-II.	16	20

Books for Reference -

१. आचार्य धनंजय, भारताचा इतिहास (प्रारंभ ते १५२६), नागपूर, श्री साईनाथ प्रकाशन, २००३
२. कठारे अनिल, प्राचीन भारताचा इतिहास, जळगाव, प्रशांत पब्लिकेशन्स, २०१२.
३. कठारे अनिल व साखरे विजया, प्राचीन भारताचा इतिहास व संस्कृती, औरंगाबाद, विद्या बुक्स पब्लिशर्स, द्वितीय आवृत्ती जून, २०१४.
४. मोरवंचीकर रा.श्री., सातवाहनकालीन महाराष्ट्र, पुणे, प्रतिमा प्रकाशन, १९९३
५. शर्मा रिता, प्राचीन भारत का इतिहास, जयपूर, बोहरा प्रकाशन, १९८८.
६. शर्मा, शल्य व शर्मा मयुरीलाल, प्राचीन भारत का इतिहास, जयपूर, अजमेरा बुक कंपनी, २००३.
७. शरण आर., प्राचीन भारतीय इतिहास, दिल्ली, राधा पब्लिकेशन्स, २००२.
८. साखरे विजया, वाकाटक कला, सोलापूर, अक्षरलेणं प्रकाशन, जून २०१२.
९. गाठाळ साहेबराव, भारताचा इतिहास, (इ.पू. ३०० - इ.स.६५०) औरंगाबाद, कैलास पब्लिकेशन्स,
१०. मारडीकर मदन, प्राचीन भारताचा इतिहास, औरंगाबाद, विद्या बुक्स पब्लिशर्स, १९९७.

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,
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History

(With Effective from 2016-17)

B.A. First Year

SEMESTER - I

OR- History of Indian Culture (Up to 647 A.D.) Paper –I

Credits: 03

Periods: 55

Marks: 75

	Period	Marks
1) Stone Age & Indus valley Civilization Stone Age - Society and Culture. Indus valley Civilization - Discovery, Social, Religious and Economic life.	16	20
2) Vedic Culture Vedic and post Vedic Age, Social, Religious and Economic life.	12	20
3) Pre Buddhist Culture Epic Age and Mahajanpadas - Social, Religious and Economic condition.	11	15
4) Social Structure Varna system, Caste system, Family institution, Asharam system, Slave System, Charity, Traditional of Adoption, Untouchability, Faith and superstitions, Recreation.	16	20

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,
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History

(With Effective from 2016-17)

B.A. First Year

SEMESTER - II

OR- History of Indian Culture (Up to 647 A.D.) Paper -III

Credits: 03

Periods: 55

Marks: 75

	Period	Marks
1) Status of Women Society, Family, Marriage, Education, Status of Women in Social, Religious, Economical and Political Sphere, Women and Art, Rights of Women, Legacy of Women, Diverse, Sati tradition, Stree dhan, Administration.	16	20
2) Religion Jain- Bouddh-Vaishnav-Shaiv-Ashoka's Dhamma.	12	15
3) Education Aim and Objectives of Education, Initiation of Education, Educational System, Period of Education, Educational fees, Circular, Educational Institutions, Universities, Temples, Agrahar and Vihar.	11	20
4) Art and Architecture 1) Stup - Sanchi, Amrawati, Rajgir, Dhauri. 2) Rock cut Architecture - Barabar, Shiur, Badami.	16	20

Books for Reference -

१. आचार्य धनंजय, भारताचा इतिहास (प्रारंभ ते १५२६), नागपूर, श्री साईनाथ प्रकाशन, २००३
२. कठारे अनिल, प्राचीन भारताचा इतिहास, जळगाव, प्रशांत पब्लिकेशन्स, २०१२.
३. कठारे अनिल व साखरे विजया, प्राचीन भारताचा इतिहास व संस्कृती, औरंगाबाद, विद्याबुक्स पब्लिशर्स, द्वितीय आवृत्ती जून, २०१४.
४. मोरवंचीकर रा.श्री., सातवाहनकालीन महाराष्ट्र, पुणे, प्रतिमा प्रकाशन, १९९३
५. शर्मा रिता, प्राचीन भारत का इतिहास, जयपूर, बोहरा प्रकाशन, १९८८.
६. शर्मा, शल्य व शर्मा मयुरीलाल, प्राचीन भारत का इतिहास, जयपूर, अजमेरा बुक कंपनी, २००३.
७. शरण आर., प्राचीन भारतीय इतिहास, दिल्ली, राधा पब्लिकेशन्स, २००२.
८. साखरे विजया व कठारे अनिल, भारतीय कलेचा इतिहास, सोलापूर, अक्षरलेपन प्रकाशन, जूलै २०१२.
९. गाठाळ साहेबराव, भारताचा इतिहास, (इ.पू. ३०० - इ.स.६५०) औरंगाबाद, कैलास पब्लिकेशन्स,
१०. मारडीकर मदन, प्राचीन भारताचा इतिहास, औरंगाबाद, विद्याबुक्स पब्लिशर्स, १९९७.

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,
NANDED**

History

(With Effective from 2016-17)

B.A. First Year

SEMESTER - I

History of India (648 – 1526 A.D.) Paper -II

Credits: 03

Periods: 55

Marks: 75

	Periods	Marks
1) Sources Archaeological and literary sources	12	15
2) Political History 1) Rashtrakut - Dantidurg, Krishna - I, Krishna -III 2) Chalukya of Kallyani - Tailap - II, Vikramaditya - VI 3) Yadav of Devgiri - Bhillam - V, Ramchandradeo.	16	20
3) Rajput Dynasty Gurjar Pratihar - Gahadwal, Chouhan, Solunki) Decline of Rajput States.	11	15
4) Vijaynagar and Bahamani Empire 1) Vijaynagar Empire - Harihar and Bukka. 2) Bahamani Empire - Allauddin Hasan Bahamani, Mahanmadshaha - III, Decline of Bahamani empire.	16	25

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,
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History

(With Effective from 2016-17)

B.A. First Year

SEMESTER - II

History of India (648 – 1526 A.D.) Paper - IV

Credits: 03

Periods: 55

Marks: 75

	Period Marks	
1) Sources	12	15
Archaeological and literary sources		
2) Arab and Turki Invasion	16	20
1) Arab - Mahanmad bin Kasim.		
2) Turki - Mahanmad Gazni, Mahanmad Ghori.		
3) Delhi Sultanut	17	25
1) Salve Dynasty - Kutubuddin Aibak - Razhia Sultan		
2) Khiliji Dynasty - Allauddin Khilji		
3) Tughalk Dynasty - Mahanmad Tughlak.		
4) Sayyad Dynasty - Khijrakhan.		
5) Lodi Dynasty - Ibrahim Lodi. Decline of Delhi Sultanut.		
4) Art and Architecture	10	15
1) Delhi Sultanut- Delhi, Ajmer		

Books for Reference -

१. आचार्य धनंजय, भारताचा इतिहास (प्रारंभ ते १७६१), नागपूर, श्री साईनाथ प्रकाशन, २००९
- २) मार्डीकर मदन, भारताचा इतिहास (६५०-१५५०), विद्या बुक्स पब्लिशर्स, औरंगाबाद, २००२.
- ३) कठारे अनिल, मध्ययुगीन भारताचा इतिहास, प्रशांत पब्लिकेशन, जळगाव, २०१३.
- ४) महाजन व्ही.डी., मध्ययुगीन भारत का इतिहास, एस.चंद पब्लिकेशन, दिल्ली.
- ५) गायधनी रं.ना., मध्ययुगीन भारताचा इतिहास, पुणे, के.सागर पब्लिकेशन, २०१०.
- ६) कठारे अनिल, प्राचीन भारताचा इतिहास, जळगाव, प्रशांत पब्लिकेशन, २०१२.
- ७) कठारे अनिल व साखरे विजया, प्राचीन भारताचा इतिहास व संस्कृती, औरंगाबाद, विद्याबुक्स पब्लिशर्स, द्वितीय आवृत्ती जून, २०१४.
- ८) कठारे अनिल व साखरे विजया, मंदिरे आणि मूर्तिशिल्प, नांदेड, अल्फा पब्लिकेशन, २००८.
- ९) शर्मा रिता, प्राचीन भारत का इतिहास, जयपूर, बोहरा प्रकाशन, १९८८.
- १०) शर्मा, शल्य व शर्मा मयुरीलाल, प्राचीन भारत का इतिहास, जयपूर, अजमेरा बुक कंपनी, २००३.
- ११) शरण आर., प्राचीन भारतीय इतिहास, दिल्ली, राधा पब्लिकेशन, २००२.
- १२) साखरे विजया व कठारे अनिल, भारतीय कलेचा इतिहास, सोलापूर, अक्षरलेण प्रकाशन, २०१२.
- १३) केंद्रे किसन, मध्ययुगीन भारताचा इतिहास, अरुणा प्रकाशन, लातूर, २०१५.
- १४) कठारे अनिल, कंधारचा प्राचीन इतिहास, शिवानी प्रकाशन, नांदेड, २०१६.

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,
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History

(With Effective from 2016-17)

B.A. First Year

SEMESTER - I

OR - History of South India (Up to 1318 A.D.) Paper - II

Credits: 03

Periods: 55

Marks: 75

	Period	Marks
1) Sources Archaeological and literary sources	12	15
2) Political History Satvahan, Vakatak and Chalukya of Badami.	10	20
3) Rashtrakut Dynasty Origine of Rashtrakut - Capitals of Rashtrakut, Brief Survey of Political History.	16	20
4) Art and Architecture 1) Cave Temples - Ajanta, Ellora , Shiur, Badami, 2) Structural Temples - Pattdakal, Aiholi	17	20

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,
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History

(With Effective from 2016-17)

B.A. First Year

SEMESTER - II

OR- History of South India (Up to 1318 A.D.) Paper - IV

Credits: 03

Periods: 55

Marks: 75

	Period	Marks
1) Chalukya of Kallyani Tailap -II, Someshwar-I, Vikramaditya-VI,	12	20
2) Yadav and Kakatia Dynasty 1) Yadav -Bhillam-V, Mahadev-I, Harpaldev, Decline. 2) Kakatia - Brief Survey of Political History	16	20
3) Pallav Dynasty Brief survey of political History and Administration.	11	15
4) Chol Dynasty Brief survey of political History and Administration.	16	20

Books for Reference -

१. आचार्य धनंजय, भारताचा इतिहास (प्रारंभ ते १५२६), नागपूर, श्री साईनाथ प्रकाशन, २००३
२. कठारे अनिल, प्राचीन भारताचा इतिहास, जळगाव, प्रशांत पब्लिकेशन्स, २०१२.
३. कठारे अनिल व साखरे विजया, प्राचीन भारताचा इतिहास व संस्कृती, औरंगाबाद, विद्याबुक्स पब्लिशर्स, द्वितीय आवृत्ती जून, २०१४.
४. मार्डीकर मदन, भारताचा इतिहास (६५०-१५५०), औरंगाबाद, विद्या बुक्स पब्लिशर्स, २००२.
५. शर्मा रिता, प्राचीन भारत का इतिहास, जयपूर, बोहरा प्रकाशन, १९८८.
६. शर्मा, शल्य व शर्मा मयुरीलाल, प्राचीन भारत का इतिहास, जयपूर, अजमेरा बुक कंपनी, २००३.
७. शरण आर., प्राचीन भारतीय इतिहास, दिल्ली, राधा पब्लिकेशन्स, २००२.
८. साखरे विजया व कठारे अनिल, नांदेड जिल्ह्यातील लेणी आणि किल्ले, नांदेड अल्फा पब्लिकेशन्स, डिसेंबर २००८.
९. साखरे विजया, वाकाटक कला, सोलापूर, अक्षरलेणं प्रकाशन, २०१२.
१०. गाठाळ साहेबराव, भारताचा इतिहास (इ.स. पू. ३००- इ.स. ६५०), औरंगाबाद, कैलास पब्लिकेशन्स, २०१०.

PAPER TITLES

B.A. First Year (Semester-I) w.e.f. June, 2016

Paper No.	Title of the Paper	Internal Marks	External Marks
I	History of Ancient India (Up to 647 A.D.) OR History of Indian Culture (Up to 647)	35	40
II	History of India (648 -1526 A.D.) OR History of south India (Up to 1318 A.D.)	35	40
B.A. First Year (Semester-II) w.e.f. June, 2016			
Paper No.	Title of the Paper	Internal Marks	External Marks
III	History of Ancient India (Up to 647 A.D.) OR History of Indian Culture (Up to 647)	35	40
IV	History of India (648 -1526 A.D.) OR History of south India (Up to 1318 A.D.)	35	40
B.A. Second Year (Semester-III) w.e.f. June, 2017			
Paper No.	Title of the Paper	Internal Marks	External Marks
V	History of Medieval India (1526 -1707A.D.) OR History of Ambedkarite Movement(1891-1994)	35	40
VI	History of British India (1757 -1857A.D.) OR History of Maratha (1630-1707A.D.)	35	40
B.A. Second Year (Semester-IV) w.e.f. June, 2017			
Paper No.	Title of the Paper	Internal Marks	External Marks
VII	History of Medieval India (1526 -1707A.D.) OR History of Ambedkarite Movement(1891-1994)	35	40
VIII	History of British India (1757 -1857A.D.) OR History of Maratha (1707-1818 A.D.)	35	40

B.A. Third Year (Semester-V) w.e.f. June, 2018			
Paper No.	Title of the Paper	Internal Marks	External Marks
IX	History of Modern India (1858-1947 A.D.) OR History of Marathwada (Up to 1948 A.D.) OR History of Modern World (1945- 1991 A.D.)	35	40
X	India after Independence (1947 – 1991 A.D.) OR Socio – religious reform movements in India OR Archaeology and Tourism	35	40
XI	History of Modern Maharashtra (1818-1960 A.D.) OR Women’s in Indian History OR History of SAARC countries	35	40
B.A. Third Year (Semester-VI) w.e.f. June, 2018			
Paper No.	Title of the Paper	Internal Marks	External Marks
XII	History of Modern India (1858-1947 A.D.) OR History of Marathwada (Up to 1948 A.D.) OR History of Modern World (1945- 1991 A.D.)	35	40
XIII	India after Independence (1947 – 1991 A.D.) OR Socio – religious reform movements in India OR Archaeology and Tourism	35	40
XIV	History of Modern Maharashtra (1818-1960 A.D.) OR Women’s in Indian History OR History of SAARC countries	35	40

* * * * *

॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

“Dnyanteerth”, Vishnupuri, Nanded - 431606 Maharashtra State (INDIA)
Established on 17th September 1994 – Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



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संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे CBCS Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ३० एप्रिल २०१९ रोजी संपन्न झालेल्या ४३व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.५/४३-२०१९ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्यात येत आहेत.

- १) बी.ए.—प्रथम वर्ष—इंग्रजी (अनिवार्य, अतिरिक्त (द्वितीय भाषा), फंक्शनल इंग्रजी, ऐच्छिक)
- २) बी.ए.—प्रथम वर्ष—हिंदी (द्वितीय भाषा, ऐच्छिक)
- ३) बी.ए.—प्रथम वर्ष—मराठी (द्वितीय भाषा, ऐच्छिक)
- ४) बी.ए.—प्रथम वर्ष—पाली (द्वितीय भाषा, ऐच्छिक)
- ५) बी.ए.—प्रथम वर्ष—संस्कृत (द्वितीय भाषा, ऐच्छिक)
- ६) बी.ए.—प्रथम वर्ष—उर्दू (द्वितीय भाषा, ऐच्छिक)
- ७) बी.ए.—प्रथम वर्ष—अर्थशास्त्र
- ८) बी.ए.—प्रथम वर्ष—भूगोल
- ९) बी.ए.—प्रथम वर्ष—इतिहास
- १०) बी.ए.—प्रथम वर्ष—सैनिकशास्त्र
- ११) बी.ए.—प्रथम वर्ष—तत्त्वज्ञान
- १२) बी.ए.—प्रथम वर्ष—राज्यशास्त्र
- १३) बी.ए.—प्रथम वर्ष—मानसशास्त्र
- १४) बी.ए.—प्रथम वर्ष—लोकप्रशासन
- १५) बी.ए.—प्रथम वर्ष—समाजशास्त्र
- १६) बी.ए.—प्रथम वर्ष—अॅडमिनिस्ट्रेटिव्ह सर्व्हिस

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,
विष्णुपुरी, नांदेड — ४३१ ६०६.
जा.क्र.: शैक्षणिक—०१/परिपत्रक/पदवी—सीबीसीएस अभ्यासक्रम/
२०१९-२०/६६
दिनांक : १७.०६.२०१९.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

स्वाक्षरित /—
उपकुलसचिव
शैक्षणिक (१-अभ्यासमंडळ) विभाग



**Swami Ramanand Teerth
Marathwada University
Nanded**

SYLLABUS

**History
B. A. FIRST Year**

**Semester I & II
Semester Pattern**

**(Choice Based Credit System)
(With Effective From 2019-2020)**

Swami Ramanand Teerth Marathwada University, Nanded

B.A. First Year, Semester I and II

Semester Pattern 2019-20

(Choice Based Credit System)

Semester	Course	Paper No.	Name of Paper	Lecture /week	Total No. of Lectures	CA	ESE	Total Marks	Credits
I	CCHIS-I	I	History of Ancient India(upto 647 A.D.)	4	55	35	40	75	03
	CCHIS-II	II	History of India (648 to 1526 A.D.)	4	55	35	40	75	03
	Total				8	110	70	80	150
II	CCHIS-III	III	History of Ancient India(upto 647 A.D.)	4	55	35	40	75	03
	CCHIS-IV	IV	History of India (648 to 1526 A.D.)	4	55	35	40	75	03
	Total				8	110	70	80	150
Total I + II Sem				16	220	140	160	300	12

Note:- CA: Continuous Assessment.

ESE: End of Semester Examination

Swami Ramanand Teerth Marathwada University, Nanded

B.A. First Year

2019-20

Semester Pattern

(Choice Based Credit System)

History -Semester - I

Paper No	Title of the Paper	Internal Marks	End Semester Exam	Total CA+ESE
HIS-I	History of Ancient India(upto 647 A.D.)	35	40	75
HIS-II	History of India (648 to 1526 A.D.)	35	40	75

History - Semester - II

Paper No.	Title of the Paper	Internal Marks	End Semester Exam	Total CA+ESE
HIS-I	History of Ancient India(upto 647 A.D.)	35	40	75
HIS-II	History of India (648 to 1526 A.D.)	35	40	75

Swami Ramanand Teerth Marathwada University, Nanded

**B.A. First Year , Semester I
Paper –I, History of Ancient India(upto 647 A.D.)**

Credits -03

Lectures -55

Marks –75

Internal Marks - Test-I -10, Test-II-10, Home Assignment/ Seminar-15 = 35, Theory Exam- 40 = Total Marks -75

Features:

- 1.This paper dealt with the cultural History of Ancient India.
- 2.This paper has wide scope to learn about the Indus Valley Civilization and Vedic Age.
- 3.This paper gives emphasis on the study of various dynasties in Ancient India.
- 4.This paper puts light on the contribution of various kings.

Utility:

1. This paper will helps students to know the archaeological and literary sources.
2. The Students will know about the great kings in Ancient India.
3. The Students will study the different religions.
4. The students will study the process of decline of the great Dynasties.

Objectives:

1. To understand the historical advancement of Ancient India from stone age to 647 A.D.
2. To understand the cultural history of Indus valley civilization and Vedic age.
3. To develop the broad view about the religious development in Ancient India.
4. To create interest among students about Ancient periods Empire and Dynasty.
5. To introduce to students about the contributions of various kings in Ancient India.

Pre Requisites:

1. Student should have the brief introduction of Ancient Indian History.
 2. Students should have an information of sources of Ancient Indian History.
 3. Students are must be familiar with the religions in Ancient India.
 4. Students are must be knowing the achievements of some eminent kings in Ancient India.
-

1. Sources	10
a) Archaeological Sources	
b) Literary Sources	
2. Stone Age and Indus Valley Civilization	15
a) Stone Age – Various stages	
b) Indus Valley Civilization – Discovery, Major sites and its excavation(Mohanjadaro, Harappa, Kalibangan and Lothal), Town Planning, Causes of Decline.	
3. Vedic Age	16
a) Pre Vedic Age – Political, Social, Religious and Economic life.	
b) Post Vedic Age – Political, Social, Religious and Economic life.	
4. Jain and Buddhist India	14
a) Sixteen Mahajanapadas.	
b) Mahaveer Vardhaman : Early life and his philosophy.	
c) Gautam Buddha : Early life and his philosophy.	

Swami Ramanand Teerth Marathwada University, Nanded
B.A. First Year, Semester II
Paper –III, History of Ancient India(upto 647 A.D.)

Credits -03

Lectures -55

Marks –75

Internal Marks - Test-I -10, Test-II-10, Home Assignment/ Seminar-15 = 35, Theory Exam- 40 = Total Marks -75

1. **Maurya Empire** **15**
 - a) Chandragupta Maurya – Career and Achievement.
 - b) Ashoka – Career and Achievement.
 - c) Causes of decline of Maurya Empire
2. **Satvahan Dynasty** **12**
 - a) Satkarni I
 - b) Raja Hala
 - c) Gautamiputra Satkarni
3. **Gupta and Vakataka Dynasty** **18**
 - a) Gupta Dynasty – Chandragupta I, Samudragupta, Chandragupta II, Golden Age, Decline of Gupta Empire.
 - b) Vakataka Dynasty – Vindhyashakti and Praversen I.
4. **Vardhana and Chalukya Dynasty** **10**
 - a) Vardhana Dynasty – Harshvardhana Career and Achievement.
 - b) Chalukya of Badami – Pulkeshi II Career and Achievement.

Books for Reading:-

१. आचार्य धनंजय - भारताचा इतिहास
 - 2- मदन माडीकर - प्राचीन भारताचा इतिहास
 - 3- गाठाल साहेबराव - भारताचा इतिहास
 - 4- डॉ. मोरवंचीकर य.श्री. - प्राचीन भारत
 - 5- पी. जी. जोशी - प्राचीन भारत
 - 6- डॉ.रामभाऊ मुटुळे, डॉ.नितीन बावळे, डॉ.परिमल सुतवणे - प्राचीन भारताचा इतिहास
-

Swami Ramanand Teerth Marathwada University, Nanded

**B.A. First Year, Semester I
Paper – II, History of India (648 to 1526 A.D.)**

Credits - 03

Periods - 55

Marks - 75

Internal Marks - Test-I -10, Test-II-10, Home Assignment/ Seminar-15 = 35, Theory Exam- 40 = Total Marks -75

Features :

1. This paper will deal with the cultural and political history of India upto 1526 A.D.
2. This paper creates a bridge to learn the history from Ancient India to Medieval India.
3. This paper creates an interest about the History of Indian and muslim dynasties.
4. This paper shows the achievements of kings from various dynasties.

Utility:

1. This paper is useful to understand the political History.
2. This paper helps students to understand the muslim invasion and their impacts on India.
3. Student will study the Contribution of different dynasties in Indian History.
4. Student will be able to acquire knowledge about changing dynasties and their impacts on Indian society.

Objectives:

1. To understand the historical events from 648 A.D. to 1526 A.D.
2. To understand the Archaeological and Literary sources.
3. To develop a broad view about various dynasty.
4. To create an interest among the students about muslim invasions and dynasties.

Pre Requisites :

1. Students must be known about the archaeological and literary sources.

1. Sources	13
a) Archaeological Sources.	
b) Literary Sources.	
2. Rashtrakuta, Chalukya and Yadava	16
a) Rashtrakuta – Dantidurga, Krishna-I, Amoghavarsha-I, Krishna-III.	
b) Chalukya of Kalyani – Tailap – II, Vikramaditya – VI.	
c) Yadava – Bhillam V, Ramchandradeva(Ramdevraya), Decline of Yadavas.	
3. Rajput Dynasty	12
a) Gurjar Pratihar, Chouhan, Solunki.	
b) Decline of Rajput Dynasty.	
4. Vijaynagar and Bahamani Empire	14
a) Vijaynagar – Harihar I, Bukka I, and Krushnadevraya.	
b) Bahamani Empire – Allauddin Hasan Bahamanshaha, Mahamadshaha III, Vajeer Mahamud Gavan.	

Swami Ramanand Teerth Marathwada University, Nanded

**B.A. First Year, Semester II
Paper - IV, History of India (648 to 1526 A.D.)**

Credits - 03

Periods - 55

Marks - 75

Internal Marks - Test-I -10, Test-II-10, Home Assignment/ Seminar-15 = 35, Theory Exam- 40 = Total Marks -75

- 1. Early Muslim Invasions and its Effect** **16**
- a) Arab Invasion – Mahamad Bin Kasim
b) Turki Invasion – Mohamad Gazni, Mohamad Ghori.
- 2. Delhi Sultanat - Part I** **14**
- a) Slave Dynasty – Kutubuddin Aibak, Altamash, Raziya Sultan.
b) Khilji Dynasty - Allauddin Khilji
- 3. Delhi Sultanat - Part II** **15**
- a) Tughalak Dynasty – Mahammad Tughalak
b) Sayyad Dynasty – Khijrakhan.
c) Lodi Dynasty – Ibrahim Lodi
d) Decline of Delhi Sultanat.
- 4. Art and Architecture** **10**
- a) Delhi – Qutubminar, Alai Darwaja.
b) Ajmer – Adhai Din ka Zopada

Books for Reading :-

१. मदन मारडी र - मध्ययु गीन भारताचा इतिहास.
२. ढवळे, बार ाळ - मध्ययु गीन भारत.
३. नी.सी. दि गीत - मध्ययु गीन भारत.
४. संपा. डॉ.रामभाऊ मुटुळे - मध्ययु गीन भारताचा इतिहास.
४. Panday A.B. - Medieval India, Vol-I & II.
-

Swami Ramanand Teerth Marathwada University, Nanded

Question Paper Pattern 2019-20

Subject – B.A. F.Y. History

Q. 1. Descriptive Question	15
OR	
Descriptive Question	
Q. 2. Descriptive Question	15
OR	
Descriptive Question	
Q.3 Write Short Notes	
a) Any one of the Following	10
i) Short Note	
ii) Short Note	
b) Any one of the Following	
i) Short Note	
ii) Short Note	

॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)

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- १) बी.ए.—प्रथम वर्ष—इंग्रजी (अनिवार्य, अतिरिक्त (द्वितीय भाषा), फंक्शनल इंग्रजी, ऐच्छिक)
- २) बी.ए.—प्रथम वर्ष—हिंदी (द्वितीय भाषा, ऐच्छिक)
- ३) बी.ए.—प्रथम वर्ष—मराठी (द्वितीय भाषा, ऐच्छिक)
- ४) बी.ए.—प्रथम वर्ष—पाली (द्वितीय भाषा, ऐच्छिक)
- ५) बी.ए.—प्रथम वर्ष—संस्कृत (द्वितीय भाषा, ऐच्छिक)
- ६) बी.ए.—प्रथम वर्ष—उर्दू (द्वितीय भाषा, ऐच्छिक)
- ७) बी.ए.—प्रथम वर्ष—अर्थशास्त्र
- ८) बी.ए.—प्रथम वर्ष—भूगोल
- ९) बी.ए.—प्रथम वर्ष—इतिहास
- १०) बी.ए.—प्रथम वर्ष—सैनिकशास्त्र
- ११) बी.ए.—प्रथम वर्ष—तत्त्वज्ञान
- १२) बी.ए.—प्रथम वर्ष—राज्यशास्त्र
- १३) बी.ए.—प्रथम वर्ष—मानसशास्त्र
- १४) बी.ए.—प्रथम वर्ष—लोकप्रशासन
- १५) बी.ए.—प्रथम वर्ष—समाजशास्त्र
- १६) बी.ए.—प्रथम वर्ष—अॅडमिनिस्ट्रेटिव्ह सर्व्हिस

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक—०१/परिपत्रक/पदवी—सीबीसीएस अभ्यासक्रम/
२०१९-२०/६६

दिनांक : १७.०६.२०१९.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

स्वाक्षरित /—

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ नांदेड

विषय – मराठी

अभ्यासक्रम - मराठी (ऐच्छिक) & द्वितीय भाषा - मराठी (Second Language)

शैक्षणिक वर्ष - २०१९-२०२० (जून २०१९) पासून

(बी.ए., बी.कॉम., बी.एससी. आणि इतर पदवी प्रथम वर्षासाठी)

सत्र पहिले

मराठी (ऐच्छिक)- संकेतांक

अभ्यासपत्रिका - पहिली **MAR- I** :- अभ्यासपत्रिका : आधुनिक मराठी कथा वाङ्मय

अभ्यासपत्रिका - दुसरी **MAR- II**:- अभ्यासपत्रिका : मध्ययुगीन आणि आधुनिक मराठी पद्य वाङ्मय

द्वितीय भाषा - मराठी (Second Language)- S.L.

अभ्यासपत्रिका - पहिली - MAR-SL-1 :- 'अक्षरलेणी '

सत्र – दुसरे

अभ्यासपत्रिका - तिसरी **MAR- III** :- मराठी कथात्म साहित्य

अभ्यासपत्रिका - चौथी **MAR- IV** :- आधुनिक मराठी कविता

द्वितीय भाषा - मराठी (Second Language)- S.L.

अभ्यासपत्रिका - दुसरी - MAR- SL- 2 :- 'साहित्यशिल्प'



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

अभ्यासक्रम - मराठी (ऐच्छिक)

शैक्षणिक वर्ष - २०१९-२०२० पासून

सत्र - पहिले

संकेतांक- MAR- I

अभ्यासपत्रिका - पहिली

अभ्यासपत्रिका : आधुनिक मराठी कथा वाङ्मय

उद्दिष्टे

- 1)कथा वाङ्मय प्रकार समजून घेणे.
- 2)मराठी कथा वाङ्मयाचे कालानुक्रमे स्वरूप समजून घेणे.
- 3)कथा वाङ्मयाच्या विविध प्रकाराची ओळख करून घेणे.
- 4)कथा वाङ्मयाची अभिरुची निर्माण करणे.

उपयोगिता

- 1)कथा वाङ्मयाच्या विविध प्रकारांची ओळख.
- 2)विद्यार्थ्यांची कथात्मदृष्टी विकसित करणे.
- 3) साहित्याभिरुचीच्या आकलनकक्षा रुंदावणे.

4) भाषिक आणि वाङ्मयीन सौंदर्यदृष्टीचा विकास.

5) मराठीच्या विविध बोलींचा परिचय.

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठाच्या मराठी अभ्यास मंडळाने 'कथाशिल्प' (संपादक- डॉ. जयद्रथ जाधव, डॉ. सुनिता सांगोले, डॉ. जयदेवी पवार) हे संपादित पुस्तक अभ्यासक्रमासाठी नेमले आहे.

अभ्यासघटक

- | | |
|----------------------|-----------------|
| 1) अतिथी देवो भव! - | वामन चोरघडे |
| 2) मोत्याचे पीक - | वि.स.खांडेकर |
| 3) किडलेली माणसं - | गंगाधर गाडगीळ |
| 4) विलायती पीक - | शंकर पाटील |
| 5) वाळवण - | रा.रं.बोराडे |
| 6) निर्वासित - | अविनाश डोळस |
| 7) कु-हाडीचे दांडे - | श्रीराम गुंदेकर |
| 8) वारसा - | सानिया |
| 9) शुद्ध बीजापोटी - | रेखा बैजल |
| 10) बरकत - | साहिल शेख |

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

अभ्यासक्रम - मराठी (ऐच्छिक)

शैक्षणिक वर्ष - २०१९-२०२० पासून

सत्र - पहिले

संकेतांक- MAR- II

अभ्यासपत्रिका - दुसरी

अभ्यासपत्रिका : मध्ययुगीन आणि आधुनिक मराठी पद्य वाङ्मय -II

उद्दिष्टे : -

१. वाङ्मयीन व भाषिक आकलनक्षमता वाढविणे .
२. कालानुक्रमे अभ्यास घटकांद्वारे अध्ययन सुलभता निर्माण करणे.
३. मध्ययुगीन आणि आधुनिक कालखंडातील कवितेच्या विचारधारा समजून घेणे.
४. कविता अभ्यासाच्या व लेखनाच्या अभिरुची विकसित करणे.
५. काव्य वाङ्मयाचा परिचय घडविणे.

उपयोगिता

१. काव्यप्रवाहातील विचारधारांची ओळख.
२. कवितेमधून प्रकट झालेल्या मानवी मूल्यांचे आकलन.
३. भाषिक आणि वाङ्मयीन सौंदर्यदृष्टीचे विकसन.
४. कवितेच्या विविध रचनाप्रकारांचा परिचय.
५. प्राचीन आणि आधुनिक काव्यप्रकारांची ओळख.

अभ्यासघटक

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेडच्या मराठी अभ्यास मंडळाकडून 'काव्यशिल्प' (संपादक : डॉ. मार्तंड कुलकर्णी , डॉ. बाबुराव खंदारे व डॉ. संतोष हंकारे) हे संपादित पुस्तक अभ्यासक्रमासाठी नेमले आहे.

१. धवळे -	महदंबा
२. पाप्या नावडे संत संगती -	संत नामदेव
३. घनु वाजे घुणघुणा -	संत ज्ञानेश्वर
४. विठो माझा लेकरवाळा -	संत जनाबाई
५. देवा नाही रुप देवा नाही नाम-	संत चोखामेळा
६. विंचू चावला (भारुड) -	संत एकनाथ
७. दोन अभंग -	संत मन्मथ शिवलिंग स्वामी
८. दोन अभंग -	संत तुकाराम
९. धिग् धिग धिग जिणें तुझे रे -	वामन पंडित
१०. घनःश्याम सुंदरा -	होनाजी बाळा
११. सुंदरा मनामध्ये भरली -	शाहीर राम जोशी
१२. शिवाजीचा पोवाडा -	महात्मा जोतीराव फुले
१३. आम्ही कोण? -	केशवसुत
१४. डोळे हे जुल्मी गडे -	भा. रा. तांबे

१५. रगडणी -	बहिणाबाई चौधरी
१६. सागरास -	वि. दा. सावरकर
१७. औदुंबर -	बालकवी
१८. नदीपल्याड -	ग. ल. ठोकळ
१९. हया गंगेमधि गगन वितळले-	बा.सी. मर्ढेकर
२०. कणा -	कुसुमाग्रज

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

अभ्यासक्रम - मराठी (ऐच्छिक)

शैक्षणिक वर्ष - २०१९-२०२० पासून

सत्र - दुसरे

सांकेतांक- MAR- III

अभ्यासपत्रिका - तिसरी

अभ्यासपत्रिका : मराठी कथात्म साहित्य

उद्दिष्टे :

१. मराठी साहित्य आणि संस्कृतीची ओळख करून घेणे.
२. महान व्यक्तिमत्वाचा परिचय घडविणे.
३. महापुरुषांच्या अनुभूतीवर प्रकाश टाकणे .
४. कथात्म साहित्यातील विविध लेखनप्रकारांची माहिती.
५. समाज परिस्थितीवर प्रकाश टाकणे .

उपयोगिता

१. महामानवाच्या व्यक्तिमत्वामधून प्रेरणा.
२. मानवी मूल्यांची रुजवणूक करणे.
३. आत्मकथनपर, चरित्रपर, प्रवासवर्णनपर व इतर कथात्म साहित्यनिर्मितीस प्रेरक वतावरणनिर्मिती.
४. वाचन आणि लेखन अभिरुची वृद्धिंगत करणे.

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेडच्या मराठी अभ्यास मंडळाकडून 'कथात्म मराठी साहित्य' -(संपादक : डॉ मथु सावंत, डॉ विठ्ठल जम्बाले व डॉ मल्लिकार्जुन तंगावार) हे संपादित पुस्तक अभ्यासक्रमासाठी नेमले आहे.

अभ्यास घटक :

चरित्र

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| १. अंगुलीमालाची धम्मदीक्षा - | डॉ. बाबासाहेब आंबेडकर |
| २. छ. शिवाजी महाराजांचे गुणसंकीर्तन - | कृष्णराव केळुसकर |
| ३ अद्वितीय स्वातंत्र्ययोद्धा - | संजय सोनवणी |

आत्मकथन

- | | |
|--------------------|----------------------|
| ४. पावनगड - | महर्षी वि. रा. शिंदे |
| ५. मी शाळेत जातो - | लक्ष्मण माने |
| ६. झपाटलेपण - | प्रतीक्षा लोणकर |

कथा, प्रवासवर्णन, ललित गद्य व कादंबरीअंश

- | | |
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| ७. शेवंतीचा खराटा - | श्री. म. माटे |
| ८. दोन ज्ञानचक्षू - | पु. ल. देशपांडे |
| ९. श्रावण - | द. ता. भोसले |
| १०. मराठवाड्याचा दुष्काळ - | सुशील धसकटे |

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

अभ्यासक्रम -मराठी (ऐच्छिक)

शैक्षणिक वर्ष - २०१९-२०२० पासून

सत्र - दुसरे

सांकेतांक- MAR- IV

अभ्यासपत्रिका - चौथी

अभ्यासपत्रिका : आधुनिक मराठी कविता

उद्दिष्टे : -

१. आधुनिक मराठी कवितेच्या प्रेरणा समजून घेणे.
२. साठोत्तरी मराठी कवितांच्या विविधांगी जाणिवांचा अभ्यास करणे .
३. मार्क्सवादी, आंबेडकरवादी आणि स्त्रीवादी कवितेच्या जाणिवांचा अभ्यास करणे.
४. जागतिकीकरणाच्या परिप्रेक्ष्यातून मराठी कवितेची मीमांसा करणे.
५. आधुनिक कवितेच्या प्रवाहातील वाङ्मयीन आणि मानवी मूल्यांची मीमांसा करणे.

उपयोगिता

१. आधुनिक मराठी कवितेचा परिचय .
२. काव्यप्रवाहातील प्रकटलेल्या मानवी मूल्यांचे आकलन .

३. कवितेचे रचनाप्रकार, भाषा आणि प्रतिमासृष्टीचा अभ्यास .

४. मराठी काव्य प्रवाहातील वैचारिक अधिष्ठानांचा शोध.

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेडच्या मराठी अभ्यास मंडळाकडून 'आधुनिक मराठी कविता' (संपादक : डॉ बाबुराव खंदारे, डॉ जयद्रथ जाधव व डॉ आनंद इंजेगावकर) हे संपादित पुस्तक अभ्यासक्रमासाठी नेमले आहे.

अभ्यासघटक :

साठोतरी मराठी कविता

- | | |
|-------------------------|-----------------|
| १. कुणाच्या खांद्यावर - | आरती प्रभू |
| २. दान - | ग्रेस |
| ३. दुःखाचा अंकुश - | भालचंद्र नेमाडे |

मार्क्सवादी कविता

- | | |
|---|---------------------|
| ४. भविष्याच्या गर्भातल्या बाळाचे रुदन - | शरच्चंद्र मुक्तिबोध |
| ५. तोवर तुला मला - | नारायण सुर्वे |

आंबेडकरवादी कविता

- | | |
|------------------------|----------------|
| ६. जग बदल घालुनी घाव - | अण्णा भाऊ साठे |
| ७. अजून थोडा वेळ - | नामदेव ढसाळ |
| ८. पुन्हा एकदा - | यशवंत मनोहर |

ग्रामीण कविता

९. हळद लावाया लक्ष्मण मलगीरवार
१०. बैल दौलतीचा धनी - रामदास केदार

आदिवासी कविता

११. बिरसा मुंडा भुजंग मेश्राम

स्त्रीवादी कविता

१२. थेरीगाथा इसवी सन दोन हजार सहा प्रजा दया पवार
१३. निष्णात सारिका उबाळे परळकर

मुस्लिम कविता

१४. असे कसे म्हणता येईल - फ. म. शहाजिंदे
१५. मी टेकले नाहीत हात - शेख इकबाल मिन्ने

जागतिकीकरणानंतरची कविता

१६. अर्थयुद्ध - अरुण काळे

काव्यप्रकार (निवडक)

१७. प्रेम म्हणजे (बोलगाणी) - मंगेश पाडगावकर
१८. एल्गार (गझल) - सुरेश भट
१९. तीन हायकू (हायकू) - प्रभाकर साळेगावकर
२०. पुण्यश्लोक अहिल्याबाई होळकर (गीत) - शं. ल. नाईक

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

अभ्यासक्रम - द्वितीय भाषा - मराठी (Second Language)

शैक्षणिक वर्ष - २०१९-२०२० पासून

सत्र - पहिले

सांकेतांक- MAR- S.L. - I

अभ्यासपत्रिका - पहिली

'अक्षरलेणी'

(बी.ए., बी.कॉम., बी.एससी आणि इतर पदवी प्रथम वर्षासाठी)

उद्दिष्टे-

१. मध्ययुगीन व आधुनिक मराठी गद्य व पद्याचे कालविशिष्ट स्वरूप- विशेष समजून घेणे.
२. मराठी वाङ्मयनिर्मितीच्या प्रेरणांची उकल करणे.
३. मराठी साहित्याची आवड निर्माण करणे.
४. मराठी प्रमाणलेखनविषयक नियमाबद्दल जागृती घडविणे.
५. मराठी व्याकरणातील शब्दांच्या जातीचा परिचय करणे.

उपयोगिता

१. मध्ययुगीन व आधुनिक गद्य - पद्य वाङ्मयाचा परिचय.
२. मराठीतील वाङ्मयप्रकारांची ओळख.

३. मराठी साहित्यनिर्मिती आणि त्यांच्या प्रेरणासंबंधी आकलन .

४. मराठी भाषेतील व्याकरणाचे उपयोजन

५. भाषाज्ञान.

अभ्यासघटक :

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेडच्या मराठी अभ्यास मंडळाकडून 'अक्षरलेणी' - (संपादक : डॉ पंढरीनाथ धोंडगे, डॉ . विठ्ठल जंबाले व डॉ कल्याण गोपनर) हे संपादित पुस्तक अभ्यासक्रमासाठी नेमले आहे.

गद्य विभाग

१. ससीक रक्षण -	म्हाडंभट
२. साहुकार म्हणजे राज्याची शोभा -	रामचंद्रपंत अमात्य
३. भावी जीवनाची उभारणी विद्यापीठात होते -	डॉ. बाबासाहेब आंबेडकर
४. क्रीडासंस्कृतीची गरज -	नरेंद्र दाभोळकर
५. पदरी पडलं पवित्र झालं -	हिम्मतराव बावसकर
६. आमची आई: साधनाताई-	मंदा आमटे
७. झाडं लावणारा माणूस -	मकरंद कुलकर्णी
८. द्योतक -	कृष्णा किंबहुने

पद्य विभाग

१. समयासी सादर व्हावे -	संत सावता माळी
२. बिकट वाट वहिवाट नसावी -	अनंत फंदी
३. आईची आठवण -	माधव जुलियन
४. माणसा इथे मी -	वामनदादा कर्डक
५. सूर्यनारायणा -	ना. धों. महानोर

६. उत्तराई-

गोविंद काळे

७. ही पृथ्वी स्त्रीलिंगी आहे -

पी. विठ्ठल

८. सूप आणि जाते -

स्वाती शिंदे

उपयोजित मराठी

१. प्रमाण मराठी लेखनाचे अनुस्वारविषयक नियम

२. शब्दांच्या जाती

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड
अभ्यासक्रम - द्वितीय भाषा - मराठी (Second Language)
शैक्षणिक वर्ष - २०१९-२०२० पासून

सत्र - दुसरे

संकेतांक- MAR- S.L. - II

अभ्यासपत्रिका - दुसरी

(बी.ए., बी.कॉम., बी.एससी आणि इतर पदवी प्रथम वर्षासाठी)

‘साहित्यशिल्प’

उद्दिष्टे :-

१. मराठी भाषा व साहित्य याविषयी अभिरुची निर्माण करणे.
२. विविध वाङ्मयप्रकारांची ओळख करून देणे.
३. भाषा उपयोजनाचे स्वरूप समजून घेणे.
४. विविध जीवनमूल्ये व कलामूल्ये यांचा परिचय करून देणे.
५. विद्यार्थ्यांचे व्यक्तिमत्व विकसित करणे.

उपयोगिता :-

१. मराठी भाषेच्या उपयोजनाशी परिचय होईल.
२. मराठी साहित्याची ओळख होईल.
३. गद्य आणि पद्य यातील विविध प्रकारांचा परिचय होईल.
४. मराठी भाषेच्या प्रमाणलेखनाची ओळख होईल.
५. जीवनमूल्ये व कलामूल्ये यांच्याशी परिचय होईल.

अभ्यासघटक -

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेडच्या मराठी अभ्यास मंडळाकडून
'साहित्यशिल्प' हे पाठ्यपुस्तक नेमण्यात आले आहे. डॉ. राजकुमार मस्के, डॉ. पृथ्वीराज तौर आणि डॉ.
हंसराज भोसले यांनी हे पाठ्यपुस्तक संपादित केले आहे.

गद्य विभाग

१. झेल्या -	व्यंकटेश माडगूळकर
२. राग -	कैलाश सत्यार्थी (भाषांतर - संकल्प गुर्जर)
३. सये तुझे डोळे -	भारत सासणे
४. चांदणभूल -	विजयकुमार मिठे
५. गोरफडाची दाहकता -	नरेंद्र लांजेवार
६. मंगळ कुजबुजला -	रंजन गर्गे
७. आई तुझ्याशिवाय -	राम शेवडीकर
८. ईद -	मोहिब कादरी

पद्य विभाग

१. त्याचे काव्यलेखन -	केशवकुमार
२. लिलीची फुले -	पु. शि. रेगे
३. साठीची गझल -	विंदा करंदीकर
४. डॉ. बाबासाहेब आंबेडकर -	ज. वि. पवार
५. तिच्या मनात उतरणे -	सुमन केसरी (भाषांतर - स्वाती दामोदरे)
६. समता -	मिलींद बागूल
७. जीवनी -	प्रिया धारूरकर
८. वासनेची मगरमिठी -	विनायक येवले
९. तलब -	सुचिता खल्लाळ

व्याकरण विभाग

१. प्रमाण मराठी लेखनाचे नियम - -ह्रस्व आणि दीर्घ
२. प्रयोगविचार

प्रश्नपत्रिकेचे प्रारूप : सर्व अभ्यासपत्रिकांसाठी

प्रत्येक अभ्यासपत्रिका एकूण ७५ गुणांसाठी असेल.

सत्रांत परीक्षा - ४० गुणांसाठी व अंतर्गत मूल्यमापनासाठी ३५ गुण आहेत.

प्रश्नपत्रिका प्रारूप :- **एकूण ७५ गुण**

अंतर्गत मूल्यमापन (C. A.) ३५ गुण

घटक चाचणी -२ (प्रत्येकी १० गुण) २० गुण

गृहकार्य / चर्चासत्र १५ गुण

सत्रांत परीक्षा (E. S. E.) ४० गुण

सत्रांत परीक्षेचे स्वरूप खालीलप्रमाणे राहिल.

प्र. १ ला पर्यायी दीर्घोत्तरी प्रश्न १५ गुण

प्र. २ रा पर्यायी दीर्घोत्तरी प्रश्न १५ गुण

प्र. ३ रा टीपा लिहा. (चारपैकी दोन) १० गुण

॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड
“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)
SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED
“Dnyanteerth”, Vishnupuri, Nanded - 431606 Maharashtra State (INDIA)
Established on 17th September 1994 – Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with ‘A’ Grade



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संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे CBCS Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ३० एप्रिल २०१९ रोजी संपन्न झालेल्या ४३व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.५/४३-२०१९ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्यात येत आहेत.

- १) बी.ए.—प्रथम वर्ष—इंग्रजी (अनिवार्य, अतिरिक्त (द्वितीय भाषा), फंक्शनल इंग्रजी, ऐच्छिक)
- २) बी.ए.—प्रथम वर्ष—हिंदी (द्वितीय भाषा, ऐच्छिक)
- ३) बी.ए.—प्रथम वर्ष—मराठी (द्वितीय भाषा, ऐच्छिक)
- ४) बी.ए.—प्रथम वर्ष—पाली (द्वितीय भाषा, ऐच्छिक)
- ५) बी.ए.—प्रथम वर्ष—संस्कृत (द्वितीय भाषा, ऐच्छिक)
- ६) बी.ए.—प्रथम वर्ष—उर्दू (द्वितीय भाषा, ऐच्छिक)
- ७) बी.ए.—प्रथम वर्ष—अर्थशास्त्र
- ८) बी.ए.—प्रथम वर्ष—भूगोल
- ९) बी.ए.—प्रथम वर्ष—इतिहास
- १०) बी.ए.—प्रथम वर्ष—सैनिकशास्त्र
- ११) बी.ए.—प्रथम वर्ष—तत्त्वज्ञान
- १२) बी.ए.—प्रथम वर्ष—राज्यशास्त्र
- १३) बी.ए.—प्रथम वर्ष—मानसशास्त्र
- १४) बी.ए.—प्रथम वर्ष—लोकप्रशासन
- १५) बी.ए.—प्रथम वर्ष—समाजशास्त्र
- १६) बी.ए.—प्रथम वर्ष—अॅडमिनिस्ट्रेटिव्ह सर्व्हिस

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,
विष्णुपुरी, नांदेड — ४३१ ६०६.
जा.क्र.: शैक्षणिक—०१/परिपत्रक/पदवी—सीबीसीएस अभ्यासक्रम/
२०१९-२०/६६
दिनांक : १७.०६.२०१९.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

स्वाक्षरित /—
उपकुलसचिव
शैक्षणिक (१-अभ्यासमंडळ) विभाग

**SWAMI RAMANAND TEERTH MARATHWADA
UNIVERSITY, NANDED**



FACULTY OF HUMANITIES

POLITICAL SCIENCE

SYLLABUS

B.A. FIRST YEAR

SEMESTER I & II

SEMESTER PATTERN

Choice Based Credit System (CBCS)

(With Effect From – 2019-2020)

Structure of B.A. Programme under CBCS Pattern (Humanities Faculty)

Semester	CORE COURSE (12)	Ability		Skill Enhancement Courses (SEC) (4)	Discipline Specific Elective DSE (6)	Generic Elective (6)
		Enhancement Compulsory Courses (AEC) (8)				
	CC-A I- 6	1 .English -	3			
I	CC-B I-6	Communication				
Credits : 24	CC-C I-6	2. SL -	3			
II	CC- A II-6	1 .English – 3				
Credits : 24	CC- B II-6	Communication				
	CC- C II-6	2. SL -	3			
III	CC- A III-6	2 .English – 3		SEC-I - 2		
Credits : 26	CC- B III-6	Communication				
	CC- C III-6	3. SL -	3			
IV	CC- A IV-6	2 .English – 3		SEC-II - 2		
Credits : 26	CC- B IV-6	Communication				
	CC- C IV-6	3. SL -	3			
V					DSE- A I – 3	GE-A I – 3
Credits : 20				SEC-III- 2	DSE- B I - 3	GE-B I – 3
					DSE- C I - 3	GE-C I – 3
VI					DSE- A II- 3	GE-A II-3
Credits : 20				SEC-IV- 2	DSE- B II- 3	GE-B II-3
					DSE- C II- 3	GE-C II-3
Total Credits :140	No. Credits: 72	No. Credits: 24		No. Credits : 8	No. Credits: 18	No. Credits: 18

Structure of B.A. Programme under CBCS Pattern (Humanities Faculty)

Semester	Course Opted	Course Name	Credits
I	Ability enhancement compulsory	1.English Communication	03
	course- I	2.SL	03
	Core Course A-I	Paper A & B	06
	Core Course B-I	Paper A & B	06
	Core Course C-I	Paper A & B	06
	Total Sem I		
II	Ability enhancement compulsory	1. English Communication	03
	course- II	2.SL	03
	Core Course A-II	Paper A & B	06
	Core Course B-II	Paper A & B	06
	Core Course C-II	Paper A & B	06
	Total Sem II		
Total Sem I & II			48
Semester	Course Opted	Course Name	Credits
III	Ability enhancement compulsory	1. English communication	03
	course- III	2. SL	03
	Core Course A-III	Paper A & B	06
	Core Course B-III	Paper A & B	06
	Core Course C-III	Paper A & B	06
	Skill enhancement course I	SEC-I	02
	Total SemIII		
IV	Ability enhancement compulsory	1. English communication	03
	course- IV	2. SL	03
	Core Course A-IV	Paper A & B	06
	Core Course B- IV	Paper A & B	06
	Core Course C- IV	Paper A & B	06
	Skill enhancement course- II	SEC-II	02
	Total Sem. IV		
Total (Sem III & IV)			52
Semester	Course Opted	Course Name	Credits
V	Discipline Specific Elective A-I	DSE A- I	03
	Discipline Specific Elective B-I	DSE B- I	03
	Discipline Specific Elective C-I	DSE C- I	03
	Generic Elective GE -A I	GE -A I	03
	Generic Elective GE -B I	GE -B I	03
	Generic Elective GE -C I	GE -C I	03
	Skill enhancement course III	SEC-III	02
	Total Sem V		
IV	Discipline Specific Elective A-II	DSE A- II	03
	Discipline Specific Elective B-II	DSE B- II	03
	Discipline Specific Elective C-II	DSE C- II	03
	Generic Elective GE -A II	GE -A II	03
	Generic Elective GE -B II	GE -B II	03
	Generic Elective GE -C II	GE -C II	03
	Skill enhancement course IV	SEC-IV	02
	Total Sem. VI		
Total (Sem. V & VI)			40
Total Course Credit			140

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
Choice Based Credit System (CBCS) Course Structure
Faculty of Humanities
B.A. First Year Syllabus
Semester pattern with effect from 2019-20

SUBJECT : POLITICAL SCIENCE

Semester	Core Course	Paper No.	Name of Paper	Lectures Per Week	Total No. of Lectures	CA	ESE	Total Marks	Credit
SEM-I	CC-POL-I	I	Introduction of Political Concepts	4	55	35	40	75	3
	CCPOL-II	II	Government & Politics of Maharashtra	4	55	35	40	75	3
	Total			8	110	70	80	150	6
SEM-II	CC-POL-I	III	Introduction of Political Concepts	4	55	35	40	75	3
	CCPOL-II	IV	Government & Politics of Maharashtra	4	55	35	40	75	3
	Total			8	110	70	80	150	6
	GRAND TOTAL			16	220	140	160	300	12

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
Choice Based Credit System (CBCS) Course Structure
Faculty of Humanities
B.A. First Year Political Science

Semester pattern with effect from 2019-20

SUBJECT : POLITICAL SCIENCE

Semester-I

Paper No.	Course Name	Title of the paper	Continuous Assessment (CA)	End of Semester Exam (ESE)	Total Marks	Credit
I	CC-POL- I	Introduction of Political Concepts	35	40	75	03
II	CC-POL- II	Government & Politics of Maharashtra	35	40	75	03
Total			70	80	150	06

Semester-II

Paper No.	Course Name	Title of the paper	Continuous Assessment (CA)	End of Semester Exam (ESE)	Total Marks	Credit
III	CC-POL- I	Introduction of Political Concepts	35	40	75	03
IV	CC-POL- II	Government & Politics of Maharashtra	35	40	75	03
Total			70	80	150	06

Exam Pattern

-
- C.A.** - 35 Marks
(Two class test each for 10 marks and one home Assignment/Seminar for 15 marks)
- ESE** - 40 Marks
(University theory exam for 40 Marks for descriptive Questions)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

End of Semester Exam (ESE)

FACULTY OF HUMANITIES

B.A. First YEAR POLITICAL SCIENCE

Question Paper Pattern

With effect from 2019-20

Time : 02 Hrs.

Marks : 40

Q. 1) Descriptive questions. 15 Marks

Or

Descriptive question.

Q. 2) Descriptive questions. 15 Marks

Or

Descriptive question.

Q. 3) Write short notes 10 marks.

A)

i)

OR

ii)

B)

i)

OR

ii)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Effective from 2019 - 20

POLITICAL SCIENCE

Class : B.A. First YEAR

(CBCS Pattern)

Semester - I

Paper Title : INTRODUCTION OF POLITICAL CONCEPTS

Paper - I

Credit : 03

Periods : 55

Marks : 75

Course Rationale :

This is an introductory paper to the concepts : Ideas and theories in Political theory. It seeks explain the evolution and usage of these concepts, Ideas and theories with reference to individual thinkers both historically and analytically. The different ideological stand points with regard to various concepts and theories are to be critically explained with the purpose of highlighting the difference in their perspectives and in order to understand their continuity and change. Further more there is need to emphasise the continuing relevance of these concepts today and explain how in idea and theory of yester years gains prominence in contemporary political concepts.

Course Objectives :

- i) To study the various Political concepts and Political analysis.
- ii) To study the introductory part of Political concepts and relevant issues.
- iii) To study the Political concepts and its relevant parts.
- iv) To study the basic concepts of Political theories or issues concern with Political ideas.

Course Utility :

- i) Pupils will understand the basic Political concepts by standing the course.
- ii) Students will be able to solve the Political problems by standing this course.
- iii) Students will acquire the judgment power by standing the various Political ideas, concepts and other Political issues concern with Politics.

Course Content

	Periods	Marks
1) State	-15-	-20-
1.1	Meaning and Definition	
1.2	Elements of State	
1.3	Theories of the Origin of the State	
I	Evolutionary Theory	
II	Social Contract Theory	
III	Marxist Theory	

2)	Government	-15-	-20-
	2.1	Meaning and Definition	
	2.2	Organs of Government – Legislature, Executive and Judiciary	
	2.3	Types of Government – Unitary & Federal	
3)	Sovereignty	-15-	-20-
	3.1	Meaning and Definition	
	3.2	Characteristics, Types and Location	
	3.3	Austin’s Theory of Sovereignty	
	3.4	Pluralistic Theory Sovereignty	
4)	Power and Authority	-10-	-15-
	4.1	Meaning and Definition	
	4.2	Bases of Power and Authority	
	4.3	Characteristics of Power and Authority	
	4.4	Types of Power and Authority	

Readings

1. N. Jaya plan, Political Theory, Atlantic Publication, New Delhi - 1999
2. Hariharadas, B.C.Choudhary, Political Theory, National Publishing House, Jaipur – 1999
3. Basudevanda, Political Theory, Himalaya Publication House, Nagpur – 1994
4. George H. Sabine, A History of Political Theory, Oxford Publication, Culcatta – 1973
5. Charles Meriam, Harry Barnes, A History of Political Theories, Central Book Publisher Alhabad - 1973
6. राजकुमार प्रुथी, राननिती सिध्दांत तथा भारतीय प्रजातंत्र, सुमित एन्टरप्राईजेस, नई दिल्ली – २००८.
7. जगदीश जौहरी, भोलाप्रसाद सिंह, राज नितीशास्त्र के नये आयाम, भारती भवन प्रकाशन, पटना – १६७८
8. सुधाकर कुलकर्णी, राजकीय सिध्दांत, अरूणा प्रकाशन, लातूर – २०१०.
9. कृ.दि. बोराळकर, राजकीय, सिध्दांत, विद्या बुक्स पब्लिशर्स, औरंगाबाद – १९९४.
10. शुभांगी राठी, राज्यशास्त्राच्या मुलभूत संकल्पना, कैलास पब्लिकेशन, औरंगाबाद – २०१३.
11. चिं. ग. घांगरेकर, राज्यशास्त्राची मुलतत्वे, श्री मंगेश प्रकाशन, नागपुर – १९९९.
12. शांताराम भोगले, अनंत वाईकर, राजकीय संकल्पना, विद्याभारती प्रकाशन, लातूर – २००३.
13. बी. वाय. कुलकर्णी, अशोक नाईकवाडे, राजकीय सिध्दांत, विद्या प्रकाशन, पुणे – २००३.
14. अशोक नाईकवाडे, मुलभुत राज्यशास्त्रीय संकल्पना, कैलाश पब्लिकेशन, औरंगाबाद – २००९.
15. भा.ल. भोळे, राजकीय सिध्दांत व राजकीय विश्लेषण, पिंपळापुरे बुक डिस्ट्रीब्युटर्स, नागपुर – २००२.
16. दिगंबर खेडेकर, राजकीय सिध्दांतातील मुलभूत संकल्पना, चिन्मय प्रकाशन, औरंगाबाद – २००९.
17. एस.बी. फड, उच्चतर आधुनिक राजकीय सिध्दांत, विद्या बुक्स पब्लिशर्स, औरंगाबाद – २०१४.
18. प.सी. काने, राजकीय सिध्दांत आधारभूत संकल्पना, पिंपळापुरे अॅन्ड कंपनी पब्लिशर्स, नागपुर – २००३.
19. रा.आ. तिजारे, चि.ग. घांगरेकर, राज्यशास्त्राचे सिध्दांत, श्री मंगेश प्रकाश नागपुर – १९९७.
20. किसन चोपडे, राजकीय सिध्दांताची तत्वे, विद्या बुक्स पब्लिशर्स, औरंगाबाद – २००२.
21. चंद्रशेखर दिवाण, राजकीय सिध्दांत व राजकीय विश्लेषण, विद्या प्रकाशन, नागपुर – १९९८.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Effective from 2019 - 20

POLITICAL SCIENCE

Class : B.A. FIRST YEAR

(CBCS Pattern)

Semester – I

Paper Title : GOVERNMENT AND POLITICS OF MAHARASHTRA

Paper - II

Credit : 03

Periods : 55

Marks : 75

Course Rationale :

This paper gives an in depth insight to the level of state Politics in Maharashtra. In this context it offers to study the patterns of state politics Specially in the light of Politics of Maharashtra. It not only deals with evolution or Formation of Maharashtra state but focus on the changing nature of Political Culture and the role of various regional parties in shaping states Political system followed by structure and function of State Government, State legislature and local Self- Government, this paper focus on Agitation in Maharashtra.

Course objectives :

- i) To Study the various Elements concern with Maharashtra Politics and State Activity
- ii) To understand different political issues of Maharashtra Politics
- iii) To understand the Government of Maharashtra State and its organs
- iv) To understand various Administrative Machineries of Local Government

Course Utility:

- i) Students will understand the formation, Government and other Political issues concern with Maharashtra Government.
- ii) Student will be to solve the Political problems by studying this course.
- iii) Pupils will acquire to understand various Political issues, Political process and Political activity.
- iv) Students get various political ideas concern with state Government and other relevant Political issues.

<u>Course content</u>	Periods	Marks
1) Formation of Maharashtra State	-15-	-20-
1.1 State Reorganization Commission		
1.2 Sanyukta Maharashtra Movement		
2) State Government	-15-	-20-
2.1 Governor – Powers and Functions		
2.2 Chief Minister – Powers and Functions		
2.3 Council of Minister – Powers and Functions		
3) State Legislature	-15-	-20-
3.1 Legislative Assembly - Composition, Power and Functions		
3.2 Legislative Council – Composition, Power and Functions		
4) Judiciary	-10-	-15-
4.1 High Court – Composition, Power and Functions		
4.2 Lok Nyayalaya (Public Court)		

Readings

1. J.D.Shukla, State and District Administration in India, IIPA 1976
2. आर.डी. सावळे, महाराष्ट्रातील शासन आणि राजकारण, अभय प्रकाशन, नांदेड – १९९९.
3. भिवसनकर के.एस., महाराष्ट्र शासन आणि राजकारण, कैलाश पब्लिकेशन्स, औरंगाबाद – १९९३.
4. भुषण जोरगुलवार, महाराष्ट्रातील शासन आणि राजकारण, लक्ष्मणराव शहापुरकर प्रकाशन, अहमदपुर – १९९९.
5. विठ्ठल मोरे, पवार, संग्राम मोरे, सोलापुरे, महाराष्ट्रातील शासन आणि राजकारण, अरूणा प्रकाशन, लातूर २०१०.
6. नाईकवाडे, नलावडे, महाराष्ट्रातील शासन आणि राजकारण, कैलाश पब्लिकेशन्स, औरंगाबाद – २०१३.
7. विलास आघाव, सुखनंदन ढाले, महाराष्ट्राचे शासन आणि राजकारण, चिन्मय प्रकाशन, औरंगाबाद – २०१९.
8. सुनिल शिंदे, भालेराव सुरेश, महाराष्ट्रातील शासन आणि राजकारण, एज्युकेशनल पब्लिशर्स, औरंगाबाद – २०१३.
9. खांदवे एकनाथ, महाराष्ट्रातील शासन आणि राजकारण, पियर्स पब्लिकेशन्स, नवी दिल्ली – २०१४.
10. दिंगबर खेडकर, काळे, सावळे, महाराष्ट्रातील शासन आणि राजकारण, चिन्मय प्रकाशन, औरंगाबाद – २०१४.
11. डी.आर. भागवत, आर.आर. बने, महाराष्ट्र शासन आणि राजकारण, क्विंटिव्ह प्रकाशन, नांदेड – २०१९.
12. बी.बी. पाटील, लोकशाही निवडणुका व सुशासन, फडके प्रकाशन, कोल्हापुर – २०१७.
13. विठ्ठल मोरे, महाराष्ट्र शासन आणि राजकारण, अरूणा प्रकाशन, लातूर – २०१०.
14. विलास पाटील, महाराष्ट्र शासन आणि राजकारण, फडके प्रकाशन, कोल्हापुर – १९९९.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Effective from 2019 - 20

POLITICAL SCIENCE

Class : B.A. FIRST YEAR

(CBCS Pattern)

Semester - II

Paper Title : INTRODUCTION OF POLITICAL CONCEPTS

Paper - III

Credit: 03

Periods : 55

Marks : 75

Course Rationale :

This is an introductory paper to the concepts: Ideas and theories in Political theory. It seeks explain the evolution and usage of these concepts, Ideas and theories with reference to individual thinkers both historically and analytically. The different ideological stand points with regard to various concepts and theories are to be critically explained with the purpose of highlighting the difference in their perspectives and in order to understand their continuity and change. Further more there is need to emphasise the continuing relevance of these concepts today and explain how in idea and theory of yester years gains prominence in contemporary political concepts.

Course Objectives :

- i) To study the various Political concepts and Political analysis.
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- iii) To study the Political concepts and its relevant parts.
- iv) To study the basic concepts of Political theories or issues concern with Political ideas.

Course Utility :

- i) Pupils will understand the basic Political concepts by standing the course.
- ii) Students will be able to solve the Political problems by standing this course.
- iii) Students will acquire the judgment power by standing the various Political ideas, concepts and other Political issues concern with Politics.

Course Content

	Periods	Marks
1) Liberty, Equality and Justice	-15-	-20-
1.1 Meaning and Definition		
1.2 Types		
1.3 Relation between liberty and Equality		
1.4 Concept of Social Justice		
1.5 Sources of Justice		

2)	Legitimacy	-15-	-20-
	2.1	Meaning and Definition	
	2.2	Classification	
	2.3	Elements	
	2.4	Essentials	
3)	Democracy	-15-	-20-
	3.1	Meaning and Definition	
	3.2	Features and Types	
	3.3	Merit and Demerits	
	3.4	Conditions for the Success of Democracy	
	3.5	Obstacles of Democracy	
4)	Nationalism	-10-	-15-
	4.1	Meaning and Definition	
	4.2	Fundamental Elements	
	4.3	Types of Nationalism	
	4.4	Merit and Demerits	

Readings

1. N. Jaya plan, Political Theory, Atlantic Publication, New Delhi - 1999
2. Hariharadas, B.C.Choudhary, Political Theory, National Publishing House, Jaipur – 1999
3. Basudevanda, Political Theory, Himalaya Publication House, Nagpur – 1994
4. George H. Sabine, A History of Political Theory, Oxford Publication, Culcatta – 1973
5. Charles Meriam, Harry Barnes, A History of Political Theories, Central Book Publisher Alhabad - 1973
6. राजकुमार प्रुथी, राननिती सिध्दांत तथा भारतीय प्रजातंत्र, सुमित एन्टरप्राईजेस, नई दिल्ली – २००८.
7. जगदीश जौहरी, भोलाप्रसाद सिंह, राज नितीशास्त्र के नये आयाम, भारती भवन प्रकाशन, पटना – १६७८
8. सुधाकर कुलकर्णी, राजकीय सिध्दांत, अरूणा प्रकाशन, लातूर – २०१०.
9. कृ.दि. बोराळकर, राजकीय, सिध्दांत, विद्या बुक्स पब्लिशर्स, औरंगाबाद – १९९४.
10. शुभांगी राठी, राज्यशास्त्राच्या मुलभूत संकल्पना, कैलास पब्लिकेशन, औरंगाबाद – २०१३.
11. चिं. ग. घांगरेकर, राज्यशास्त्राची मुलतत्वे, श्री मंगेश प्रकाशन, नागपुर – १९९९.
12. शांताराम भोगले, अनंत वाईकर, राजकीय संकल्पना, विद्याभारती प्रकाशन, लातुर – २००३.
13. बी. वाय. कुलकर्णी, अशोक नाईकवाडे, राजकीय सिध्दांत, विद्या प्रकाशन, पुणे – २००३.
14. अशोक नाईकवाडे, मुलभुत राज्यशास्त्रीय संकल्पना, कैलाश पब्लिकेशन, औरंगाबाद – २००९.
15. भा.ल. भोळे, राजकीय सिध्दांत व राजकीय विश्लेषण, पिंपळापुरे बुक डिस्ट्रीब्युटर्स, नागपुर – २००२.
16. दिगंबर खेडेकर, राजकीय सिध्दांतातील मुलभूत संकल्पना, चिन्मय प्रकाशन, औरंगाबाद – २००२.
17. एस.बी. फड, उच्चतर आधुनिक राजकीय सिध्दांत, विद्या बुक्स पब्लिशर्स, औरंगाबाद – २०१४.
18. प.सी. काने, राजकीय सिध्दांत आधारभूत संकल्पना, पिंपळापुरे अॅन्ड कंपनी पब्लिशर्स, नागपूर – २००३.
19. रा.आ. तिजारे, चि.ग. घांगरेकर, राज्यशास्त्राचे सिध्दांत, श्री मंगेश प्रकाश नागपुर – १९९७.
20. किसन चोपडे, राजकीय सिध्दांताची तत्वे, विद्या बुक्स पब्लिशर्स, औरंगाबाद – २००२.
21. चंद्रशेखर दिवाण, राजकीय सिध्दांत व राजकीय विश्लेषण, विद्या प्रकाशन, नागपुर – १९९८.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Effective from 2019 - 20
POLITICAL SCIENCE
Class : B.A. FIRST YEAR

(CBCS Pattern)

Semester - II

Paper Title : GOVERNMENT AND POLITICS OF MAHARASHTRA

Paper - IV

Credit : 03

Periods : 55

Marks : 75

Course Rationale :

This paper gives an in depth insight to the level of state Politics in Maharashtra. In this context it offers to study the patterns of state politics Specially in the light of Politics of Maharashtra. It not only deals with evolution or Formation of Maharashtra state but focus on the changing nature of Political Culture and the role of various regional parties in shaping states Political system followed by structure and function of State Government, State legislature and local Self- Government, this paper focus on Agitation in Maharashtra.

Course objectives :

- i) To Study the various Elements concern with Maharashtra Politics and State Activity
- ii) To understand different political issues of Maharashtra Politics
- iii) To understand the Government of Maharashtra State and its organs
- iv) To understand various Administrative Machineries of Local Government

Course Utility:

- i) Students will understand the formation, Government and other Political issues concern with Maharashtra Government.
- ii) Student will be to Solve the Political problems by studying this course.
- iii) Pupils will acquire to understand various Political issues, Political process and Political activity.
- iv) Student get various political ideas concern with state Government and other relevant Political issues.

Course Content	Periods	Marks
1) Local Self Government (Rural Govt.)	-15-	-20-
1.1 Main features of 73 th Constitutional Amendment		
1.2 Gram Panchayat-Composition, Power and Functions.		
1.3 Panchayat Samiti – Composition, Power and Functions		
1.4 Zilla Parishad – Composition, Power and Functions		
2) Local Self Government (Urban Govt.)	-15-	-20-
2.1 Main features of 74 th Constitutional Amendment		
2.2 Municipal Corporation – Composition, Power and Functions		
2.3 Municipal Councils – Composition, Power and Functions		
3) Regional Political Parties in Maharashtra	-15-	-20-
3.1 Shetkari Kamgar Paksha		
3.2 Shivsena		
3.3 Republican Party		
3.4 Maharashtra Navnirman Sena		
4) Political Movement in Maharashtra	-10-	-15-
4.1 Peasant Movement		
4.2 Marathwada Vikas Andolan		
4.3 Anti Corruption Movement		
4.4 Andhashraddha Nirmulan Movement		

Readings

1. J.D.Shukla, State and District Administration in India, IIPA 1976
2. आर.डी. साबळे, महाराष्ट्रातील शासन आणि राजकारण, अभय प्रकाशन, नांदेड – १९९९.
3. भिवसनकर के.एस., महाराष्ट्र शासन आणि राजकारण, कैलाश पब्लिकेशन्स, औरंगाबाद – १९९३.
4. भुषण जोरगुलवार, महाराष्ट्रातील शासन आणि राजकारण, लक्ष्मणराव शहापुरकर प्रकाशन, अहमदपुर – १९९९.
5. विठ्ठल मोरे, पवार, संग्राम मोरे, सोलापुरे, महाराष्ट्रातील शासन आणि राजकारण, अरूणा प्रकाशन, लातूर २०१०.
6. नाईकवाडे, नलावडे, महाराष्ट्रातील शासन आणि राजकारण, कैलाश पब्लिकेशन्स, औरंगाबाद – २०१३.
7. विलास आघाव, सुखनंदन ढाले, महाराष्ट्राचे शासन आणि राजकारण, चिन्मय प्रकाशन, औरंगाबाद – २०१९.
8. सुनिल शिंदे, भालेराव सुरेश, महाराष्ट्रातील शासन आणि राजकारण, एज्युकेशनल पब्लिशर्स, औरंगाबाद – २०१३.
9. खांदवे एकनाथ, महाराष्ट्रातील शासन आणि राजकारण, पियर्स पब्लिकेशन्स, नवी दिल्ली – २०१४.
10. दिंगबर खेडकर, काळे, सावळे, महाराष्ट्रातील शासन आणि राजकारण, चिन्मय प्रकाशन, औरंगाबाद – २०१४.
11. डी.आर. भागवत, आर.आर. बने, महाराष्ट्र शासन आणि राजकारण, क्विंटिव्ह प्रकाशन, नांदेड – २०१९.
12. बी.बी. पाटील, लोकशाही निवडणुका व सुशासन, फडके प्रकाशन, कोल्हापुर – २०१७.
13. विठ्ठल मोरे, महाराष्ट्र शासन आणि राजकारण, अरूणा प्रकाशन, लातूर – २०१०.
14. विलास पाटील, महाराष्ट्र शासन आणि राजकारण, फडके प्रकाशन, कोल्हापुर – १९९९.

PAPER TITLES

B.A. FIRST YEAR (SEMESTER - I) W.E.F. 2019-20

Paper No.	Title of the Paper	Internal Marks	External Marks
I	Introduction of Political Concepts	35	40
II	Government and Politics in Maharashtra	35	40

B.A. FIRST YEAR (SEMESTER - II) W.E.F. 2019-20

Paper No.	Title of the Paper	Internal Marks	External Marks
III	Introduction of Political Concepts	35	40
IV	Government and Politics in Maharashtra	35	40

B.A. SECOND YEAR (SEMESTER - III) W.E.F. 2020-21

Paper No.	Title of the Paper	Internal Marks	External Marks
V	Government and Politics in India	35	40
VI	International Relations	35	40
SEC I	Election Management	25	25

B.A. SECOND YEAR (SEMESTER – IV) W.E.F. 2020-21

Paper No.	Title of the Paper	Internal Marks	External Marks
VII	Government and Politics in India	35	40
VIII	International Relations	35	40
SEC II	Political Journalism	25	25

B.A. THIRD YEAR (SEMESTER – V) W.E.F. 2021-22

Core Course	Paper No.	Title of the Paper	Internal Marks	External Marks
DSE-Pol.Sci	IX	Indian Political Thought OR Political Sociology	35	40
GE– Pol.Sci.	X	India's Foreign Policy	35	40
SEC	III	Indian Parliamentary Procedure	25	25

B.A. THIRD YEAR (SEMESTER – VI) W.E.F. 2021-22

Core Course	Paper No.	Title of the Paper	Internal Marks	External Marks
DSE Pol.Sci.	XI	Political Ideology OR Modern Political Analysis	35	40
GE– Pol. Sci	XII	Western Political Thinker	35	40
SEC	IV	Indian Democracy and Good Governance	25	25

* * * * *

॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

“Dnyanteerth”, Vishnupuri, Nanded - 431606 Maharashtra State (INDIA)

Established on 17th September 1994 – Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



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प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ३० एप्रिल २०१९ रोजी संपन्न झालेल्या ४३व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.५/४३-२०१९ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्यात येत आहेत.

- १) बी.ए.—प्रथम वर्ष—इंग्रजी (अनिवार्य, अतिरिक्त (द्वितीय भाषा), फंक्शनल इंग्रजी, ऐच्छिक)
- २) बी.ए.—प्रथम वर्ष—हिंदी (द्वितीय भाषा, ऐच्छिक)
- ३) बी.ए.—प्रथम वर्ष—मराठी (द्वितीय भाषा, ऐच्छिक)
- ४) बी.ए.—प्रथम वर्ष—पाली (द्वितीय भाषा, ऐच्छिक)
- ५) बी.ए.—प्रथम वर्ष—संस्कृत (द्वितीय भाषा, ऐच्छिक)
- ६) बी.ए.—प्रथम वर्ष—उर्दू (द्वितीय भाषा, ऐच्छिक)
- ७) बी.ए.—प्रथम वर्ष—अर्थशास्त्र
- ८) बी.ए.—प्रथम वर्ष—भूगोल
- ९) बी.ए.—प्रथम वर्ष—इतिहास
- १०) बी.ए.—प्रथम वर्ष—सैनिकशास्त्र
- ११) बी.ए.—प्रथम वर्ष—तत्त्वज्ञान
- १२) बी.ए.—प्रथम वर्ष—राज्यशास्त्र
- १३) बी.ए.—प्रथम वर्ष—मानसशास्त्र
- १४) बी.ए.—प्रथम वर्ष—लोकप्रशासन
- १५) बी.ए.—प्रथम वर्ष—समाजशास्त्र
- १६) बी.ए.—प्रथम वर्ष—अॅडमिनिस्ट्रेटिव्ह सर्व्हिस

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक—०१/परिपत्रक/पदवी—सीबीसीएस अभ्यासक्रम/
२०१९-२०/६६

दिनांक : १७.०६.२०१९.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

स्वाक्षरित /—

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

SYLLABUS PUBLIC ADMINISTRATION

**Semester Pattern
(Choice Base Credit System)**

**B. A. FIRST YEAR
Semester :- I and II**

(With Effective From 2019-20)

Swami Ramanand Teerth Marathwada University Nanded

CHOICE BASED CREDIT SYSTEM (C.B.C.S.)

SEMESTER PATTERN

B.A. First Year (Semester :-I & II)

Subject :- Public Administration

Under Faculty of Humanities

(For Affiliated Colleges)

(With Effective from June 2019)

Total Credits :12

Note :

C.A: - Continuous Assessment

E.S.E. :- End of Semester Examination (E.S.E.)

Each Paper is of 3 Credits

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure
Faculty of Humanities

B.A. First Year Semester I & II Syllabus

Semester Pattern Effective from 2019-20

Subject : Public Administration

Semester	Core Course	Paper No.	Name of paper	Lectures / Week	Total No. of Lectures	CA	ESE	Total Marks	Credits
Semester I	CCPA-I	I	Basic Principles Of Public Administration	4	55	35	40	75	3
	CCPA-II	II	District Administration	4	55	35	40	75	3
			Total Sem.-I		8	110	70	80	150
Semester II	CCPA-I	III	Administrative Organization and Its Principles	4	55	35	40	75	3
	CCPA-II	IV	Administrative System of Maharashtra State	4	55	35	40	75	3
				8	110	70	80	150	6
			Total Sem. I & II	16	220	140	160	300	12

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

CBCS – Paper Pattern in the Subject of Public Administration

B.A. First Year Semester – I & II

(Effective from 2019-20)

B.A. First Year Semester – I

Semester	Paper No.	Title of the Paper	Internal marks (C.A.)	End Semester Exam (ESE)	Total marks (CA+ESE)
First Semester	I	Basic Principles of Public Administration	35	40	75
First Semester	II	District Administration	35	40	75
					150

B.A. First Year Semester – II

Semester	Paper No.	Title of the Paper	Internal marks (C.A.)	End Semester Exam (ESE)	Total marks (CA+ESE)
Second Semester	III	Administrative Organization and Its Principles	35	40	75
Second Semester	IV	Administrative System of Maharashtra State	35	40	75
					150

Continuous Assessment (C.A.) :- 35

End semester exam (E.S.E.) :- 40

Total Marks :- 75

C.A.: Continuous Assessment : (35 marks)

Continues Assessment	Marks
Test –I	10
Test-II	10
Home assignment	10
Seminar	05
Total Marks	35 marks

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
Public Administration
B.A. First Year
Semester – I and II
End Semester Examination
Question Paper Pattern

Time: 1 1/2 Hours

Total Marks :40

Q.No.1	Descriptive Questions OR Descriptive Questions	15 marks
Q.No.2	Descriptive Questions OR Descriptive Questions	15 marks
Q.No.3	Write short notes. Section A) I) 05 mark (Or) II) 05 mark Section B) I) 05 mark (Or) II) 05 mark	10 marks

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Public Administration

B.A. First Year Semester – I

Basic Principles of Public Administration Paper No. – I

(Effective from June 2019)

Credits : 03

Periods : 55

Marks : 75

Course Rational

Public Administration is one of the youngest branch of Faculty of Humanities. With the expansion of the activities of modern state, public administration has assumed great significance in modern society. The Public Administration and Administrative Officers playing impartment role in social and economic development of the Nation. Administration is as old as mankind. It has acquired all spheres of human life right from birth to death. It is very close to the daily life of any person in practical. Public Administration Studies the systematic implementation of Laws and Government policies, theories principles and its controlling system. The subject stands as an integral element of democratic system of the nation.

It is intended that the subject is introduced, as a optional subject to the students of U.G. level. The subject is introduced to comprehend the importance of Administration theory and practice. as well as Public Administration and private Administration, Public Private Partnership, civil society and sustainable development .

Course Objectives:

- 1) The Course introduces and provides knowledge of Public Administration.
- 2) To provide knowledge of the new trends in public administration
- 3) To understand the relations of public administration with other humanities

Course Content	Periods	Marks
1) Public Administration :- Meaning, Nature, Scope and Importance	15	15
2) Evolution of the discipline	10	15
A) 1887 To 1926		
B) 1927 To 1937		
C) 1938 To 1947		
D) 1948 To 1970		
E) 1971 To till date		

3) Public Administration and Private Administration –	10	15
A) Affinity and Difference.		
B) Public Private Partnership (P.P.P.)		
4) Relations of Public Administration with other humanities	13	15
A) Public Administration and sociology		
B) Public Administration and Political Science		
C) Public Administration and Economics		
D) Public Administration and Law		
5) New Trends in Public Administration	12	15
A) Good Governance		
B) Sustainable development		
C) Civil Society		

Reference Books :-

- 1) Rathod P.B., Contemporary Public Administration ABD Publishers Jaipur 2004
- 2) Awasthi & Maheshwari, Public Administration, Laxminarain Agrawal, Agra.
- 3) A.R. Tyagi, Public Administration, Atma Ram & Sons Publication New Delhi.
- 4) Mohit Bhattacharya, New Horizon of public Administration, Jawahar Publishers New Delhi.
- 5) प्रसादसिंग बिरकेश्वर, लोकप्रशासन, ज्ञानदा प्रकाशन नई दिल्ली
- 6) कटारिया सुरेंद्र, लोकप्रशासन, नॅशनल पब्लिकेशन हाऊस, नई दिल्ली
- 7) फाडिया बी.एल. “ लोकप्रशासन”, साहित्य भवन पब्लिकेशन, नवी दिल्ली. २००१
- 8) फडिया बी.एल. , उच्चतर लोकप्रशासन साहित्यभवन प्रकाशन, आग्रा-२००१.
- 9) बंग के.आर., प्रशासकीय सिद्धांत, विद्या प्रकाशन औरंगाबाद, २००४.
- 10) दुबे अशोककुमार, २१ वी शताब्दी मे लोकप्रशासन, टाटा मॅकग्रा हिल पब्लिशिंग कंपनी, नवी दिल्ली. २०११
- 11) एम. लक्ष्मीकांत, लोकप्रशासन, टाटा मॅकग्रा-हिल पब्लिशिंग कंपनी, नवी दिल्ली २००६
- 12) भोगले शांताराम, लोकप्रशासन सिद्धांत व कार्यपद्धती कैलास प्रकाशन औरंगाबाद
- 13) पाटील बी.बी., लोकप्रशासन फडके प्रकाशन औरंगाबाद
- 14) बोरा पारस व शिरशाट श्याम, लोकप्रशासन शास्त्रे विद्या प्रकाशन औरंगाबाद, जून २०१३.
- 15) पोहेकर प्रीती, लोकप्रशासनाची मुलतत्वे, अरुणा प्रकाशन, लातूर -२००८.
- 16) भूताळे पी.व्ही. & वडवळे बी.सी. लोकप्रशासन संह्याद्री प्रकाशन नांदेड
- 17) खुमसे स्मिता & रेड्डी उर्मिला, लोकप्रशासनाची मुलतत्वे अरुणा प्रकाशन २०११

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Public Administration

B.A. First Year Semester – I

District Administration Paper No. – II

(Effective from June 2019)

Credits : 03

Periods : 55

Marks : 75

Course Rational :

This course is introduced to B. A. first year students at second semester. The Present system of district administration owes its origin to the time of the Mauryan Empire. But modern structure of district administration in India developed in Colonial Period (1772). At that time was district administration established for collection of revenue. In the present era, district is the basic territorial unit of administration in India. District administration is the total functioning of Government in a district level. In this paper focus on providing knowledge of district administration for the Students.

Course Objectives:

1. To know District Administration.
2. To understand Structure and function of various Administrative offices of District Administration.
3. To provide knowledge of the Revenue Administration, Police administration and Judiciary system at district and taluka level.

Course Content:

	Periods	Marks
Unit-1 District Administration –		
Meaning, Importance	10	15
Elements of District Administration		
Unit-2 District Revenue Administration	12	20
a) District Collector		
b) Sub Divisional Officer		
c) Tahasildar		
d) Mandal aadhikari		
e) Talathi		
f) Kotwal		

Unit-3 District Judiciary	10	15
a. District Court		
b. Taluka Court		

Unite -4 Law and Order-

A) Meaning and Importance		
B) Principles of Law & Order	10	10

Unit – 5 Police Administration

a. District Magistrate		
b. Superintendent of Police		
c. Dy. Superintendent of Police	13	15
c. Police Inspector		
d. Police Patil		
e. Police-Public Relations		

Reference Books :-

1. Khera S.S., District Administration, National, New Delhi, 1977
2. Jain R. B., District Administration, Indian Institute of Public Administration, 1980
3. Dayal Ishwar, Mathur Kuldeep & Battacharya M., District Administration, McMillan, New Delhi, 1976
4. Misra S.C. Police Administration in India, National Police Academy, Mount Abu, 1972
5. Shrama P.D., Indian Police : A Development Approach, Delhi, 1971.
6. Shukla J.D., State and District Administration in India, IIPA, New Delhi
7. Sapru, R.K., Indian Administration, Kalyani Publishers, New Delhi, 2001.
8. Maheshwari S.R., State Government in India, Mcmillan, New Delhi, 1982.
9. Government of India, Administrative Reforms Commission-15th Report on State Administration New Delhi
10. Khandelwal R.M., State level Plan Administration in India, RBSA Publishers, Jaipur, 1985.
11. Arora R.K., Goyal Rajani, Indian Public administration, Wishwa Prakshan, New Delhi, 2009.
12. Padhi A.P., State Administration in India, Uppal Publication, New Delhi, 1998.
- 13) ठोंबरे सतीश महाराष्ट्र व जिल्हा प्रशासन अरुणा प्रकाशन लातूर
- 14) विळेगावे व्यंकट , महाराष्ट्र व जिल्हा प्रशासन अरुणा प्रकाशन लातूर
- 15) पोहेकर प्रीती व भुतडा खरटमोल महाराष्ट्र प्रशासनाची रूपरेषा अरुणा प्रकाशन लातूर
- 16) इंगळे उत्तम महाराष्ट्रातील पोलीस जनता संबंध प्रतिभास प्रकाशन परभणी
- 17) कुडकेकर एन.पी.व एकंबेकर पंचशील महाराष्ट्र व जिल्हा प्रशासकीय व्यवस्था, अरुणा प्रकाशन लातूर



Swami Ramanand Teerth Marathwada University, Nanded

**CHOICE BASED CREDIT SYSTEM (CBCS)
SEMESTER PATTERN**

**B.A. First Year (Semester :-II)
Subject :- Public Administration
Under Faculty of Humanities
(For Affiliated Colleges)**

(With Effective from Nov. 2019)

Note :

C.A: - Continuous Assessment

ESE :- End of Semester Examination

Each Paper is of 3 Credits

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Public Administration

B.A. First Year Semester – II

Administrative Organization and Its Principles

Paper No. – III

(Effective from Nov. 2019)

Credits : 03

Periods : 55

Marks : 75

Course Rational :

Public Administration is one of the youngest branches of Faculty of Humanities. With the expansion of the activities of modern state, public administration has assumed great significance in modern society. The course is introduced to comprehend the importance of organizations. as well as line and staff agencies and Chief Executive etc. Administrative Organization and its principles is an important part of public administration. The focus of the course is on the Hierarchy, Span of control, Moral ,Communication etc..

Learning Objectives:

After studying the course students will have a capacity to understand :

- 1) Basic Knowledge of administrative Organization and its principles.
- 2) To provide knowledge of the Functions and qualities of chief executive
- 3) To understand the importance of public relations in administration.

Course Content

Periods

Marks

1) Organization :-

12

15

Meaning ,nature and importance of organization

Forms of Organization –

A) Formal Organization

B) Informal Organization

2) Principles of Administrative Organization :	15	20
A) Hierarchy – Meaning, merits and demerits.		
B) Span of control - Meaning and importance		
C) Communication – Meaning, types		
D) Moral – Meaning and Types		
E) Delegation – Meaning, Importance.		
3) Line and Staff Agencies :	10	15
A) Meaning, Types and Functions.		
B) Department :Meaning and Basic Elements		
4) Chief Executive :		
Types, Functions & Qualities of Chief Executive	10	15
5) Public Relations :	08	10
Meaning, Importance and Agencies.		

Reference Books :-

- 1) Awasthi & Maheshwari, Public Administration, Laxminarain Agrawal, Agra.
- 2) A.R. Tyagi, Public Administration, Atma Ram & Sons Publication New Delhi.
- 3) Mohit Bhattacharya, New Horizon of public Administration, Jawahar Publishers New Delhi.
- 4) प्रसादसिंग बिरकेश्वर, लोकप्रशासन, ज्ञानदा प्रकाशन नई दिल्ली
- 5) कटारिया सुरेंद्र, लोकप्रशासन, नॅशनल पब्लिकेशन हाऊस, नई दिल्ली
- 6) फाडिया बी.एल. “ लोकप्रशासन”, साहित्य भवन पब्लिकेशन, नवी दिल्ली. २००१
- 7) बोरा पारस व शिरशाट श्याम, लोकप्रशासन शास्त्रे विद्या प्रकाशन औरंगाबाद, जून २०१३.
- 8) फडिया बी.एल. , उच्चतर लोकप्रशासन साहित्यभवन प्रकाशन, आग्रा-२००१.
- 9) बंग के.आर., प्रशासकीय सिद्धांत, विद्या प्रकाशन औरंगाबाद, २००४.
- 10) दुबे अशोककुमार, २१ वी शताब्दी मे लोकप्रशासन, टाटा मॅकग्रा हिल पब्लिशिंग कंपनी, नवी दिल्ली. २०११
- 11) एम. लक्ष्मीकांत, लोकप्रशासन, टाटा मॅकग्रा-हील पब्लिशिंग कंपनी, नवी दिल्ली २००६
- 12) भोगले शांताराम, लोकप्रशासन सिद्धांत व कार्यपद्धती कैलास प्रकाशन औरंगाबाद
- 13) पाटील बी.बी., लोकप्रशासन फडके प्रकाशन औरंगाबाद
- 14) डोळे ना.य., लोकप्रशासन , साधना प्रकाशन पुणे १९६०
- 15) पोहेकर प्रीती, लोकप्रशासनाची मुलतत्वे, अरुणा प्रकाशन, लातूर -२००८.
- 16) भूताळे पी.व्ही. & वडवळे बी.सी. लोकप्रशासन संहयाद्री प्रकाशन नांदेड
- 17) खुमसे स्मिता & रेड्डी उर्मिला, लोकप्रशासनाची मुलतत्वे अरुणा प्रकाशन २०११
- 18) कचूरवार बी.आर., लोक प्रशासनशास्त्र , अभाग प्रकाशन , नांदेड

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Public Administration

B.A. First Year Semester – II

Administrative System of Maharashtra State

Paper No. –IV

(Effective from Nov. 2019)

Credits : 03

Periods : 55

Marks : 75

Course Rational :

Maharashtra has a parliamentary system of government with two democratically elected houses, the Legislative Assembly (Vidhan Sabha) and Legislative Council (Vidhan Parishad). The Government of Maharashtra is headed by the chief Minister and the Chief Secretary is at the apex of the Administrative Hierarchy of Maharashtra state. The focus of the course is on the Administrative system of Maharashtra state. It also introduces with the various commissions in Maharashtra state.

The Course goals to inform administrative system of Maharashtra as well as Formation of Maharashtra state. The syllabus makes students to aware of the government and administration of Maharashtra state. It informs U.G. level students about the High Court , Chief Minister, Council of Ministers, M.P.S.C., state Election Commission etc.

Course Objectives:

After studying the course students will have a capacity to understand :

- 1) To Understand the Role of Chief Minister and State Secretariat in Maharashtra state.
- 2) To understand Structure and function of State Legislature
- 3) To provide knowledge of the state government and Administration.

Course Content	Periods	Marks
1) Formation and reorganization of Maharashtra State.	10	10
2) State Legislature		
A) Legislative Assembly (Vidhan sabha) Composition &Functions	10	20
B) Legislative Council (Vidhan Parishad) Composition &Functions		
3) State Government and Administration	15	20
A) Governor : Powers and Functions		

B) Chief Minister : Powers, Functions		
C) Council of Minister : Composition & Functions		
D) State Secretariat : Composition and Functions		
E) Chief Secretary : Powers and Functions		
4) State Judiciary	08	10
High Court – Composition & Powers		
5) Constitutional and Statutory Bodies	12	15
a) State Finance Commission		
b) Maharashtra Public Service Commission		
c) State Election Commission		
d) State Women Commission		

Reference Books :-

1. Maheshwari S.R., State Government in India, Mecomillan, New Delhi, 1982.
2. Government of India, Administrative Reforms Commission-II, 15th Report on State Administration, New Delhi, 2009.
3. Khandelwal R.M., State level Plan Administration in India, RBSA Publishers, Jaipur, 1985.
4. Sapru R.K., Indian Administration, Kalyani Publishers, New Delhi, 2001.
5. Arora R.K., Goyal Rajani, Indian Public administration, Wishwa Prakshan, New Delhi, 2009.
6. Padhi A.P., State Administration in India, Uppal Publication, New Delhi, 1998.
7. कटारिया सुरेंद्र, राज्य प्रशासन मलिक अँड कंपनी जयपूर २००७
8. प्रा.बंग के.आर. महाराष्ट्र प्रशासन विद्या प्रकाशन औरंगाबाद 2001
9. कोत्तापले लक्षण महाराष्ट्र प्रशासन कल्पना प्रकाशन नांदेड
10. पाटील वा.भ., महाराष्ट्र प्रशासन प्रशांत प्रकाशन जळगाव २०१२
11. कुडकेकर एन.पी. महाराष्ट्र व जिल्हा प्रशासन अरुणा प्रकाशन लातूर २०१७
12. ठोंबरे सतीश, महाराष्ट्र व जिल्हा प्रशासन अरुणा प्रकाशन लातूर २००२
13. विळेगावे व्यंकट, महाराष्ट्र व जिल्हा प्रशासन अरुणा प्रकाशन लातूर २००९
14. पोहेकर प्रीती व प्रा.खरटमोल, महाराष्ट्र प्रशासनाची रूपरेषा अरुणा प्रकाशन लातूर २०११

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॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

“Dnyanteerth”, Vishnupuri, Nanded - 431606 Maharashtra State (INDIA)
Established on 17th September 1994 – Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with ‘A’ Grade



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संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे CBCS Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ३० एप्रिल २०१९ रोजी संपन्न झालेल्या ४३व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.५/४३-२०१९ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्यात येत आहेत.

- १) बी.ए.—प्रथम वर्ष—इंग्रजी (अनिवार्य, अतिरिक्त (द्वितीय भाषा), फंक्शनल इंग्रजी, ऐच्छिक)
- २) बी.ए.—प्रथम वर्ष—हिंदी (द्वितीय भाषा, ऐच्छिक)
- ३) बी.ए.—प्रथम वर्ष—मराठी (द्वितीय भाषा, ऐच्छिक)
- ४) बी.ए.—प्रथम वर्ष—पाली (द्वितीय भाषा, ऐच्छिक)
- ५) बी.ए.—प्रथम वर्ष—संस्कृत (द्वितीय भाषा, ऐच्छिक)
- ६) बी.ए.—प्रथम वर्ष—उर्दू (द्वितीय भाषा, ऐच्छिक)
- ७) बी.ए.—प्रथम वर्ष—अर्थशास्त्र
- ८) बी.ए.—प्रथम वर्ष—भूगोल
- ९) बी.ए.—प्रथम वर्ष—इतिहास
- १०) बी.ए.—प्रथम वर्ष—सैनिकशास्त्र
- ११) बी.ए.—प्रथम वर्ष—तत्त्वज्ञान
- १२) बी.ए.—प्रथम वर्ष—राज्यशास्त्र
- १३) बी.ए.—प्रथम वर्ष—मानसशास्त्र
- १४) बी.ए.—प्रथम वर्ष—लोकप्रशासन
- १५) बी.ए.—प्रथम वर्ष—समाजशास्त्र
- १६) बी.ए.—प्रथम वर्ष—अॅडमिनिस्ट्रेटिव्ह सर्व्हिस

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,
विष्णुपुरी, नांदेड — ४३१ ६०६.
जा.क्र.: शैक्षणिक—०१/परिपत्रक/पदवी—सीबीसीएस अभ्यासक्रम/
२०१९-२०/६६
दिनांक : १७.०६.२०१८.

स्वाक्षरित /—
उपकुलसचिव
शैक्षणिक (१-अभ्यासमंडळ) विभाग

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.



**SWAMI RAMANAND TEERTH
MARATHWADA UNIVERSITY,
NANDED**

Sociology Syllabus

B. A. First Year

Semester Pattern

(Choice Based Credit System)

WITH EFFECT FROM JUNE 2019 - 2020

CBCS – Paper Pattern in the subject of Sociology
B. A. First Year Semester Pattern-2019-20

B. A. First Year Sociology Syllabus

Contents

Ist Semester

Paper No.	Title of the Paper	Internal Marks	External Marks
I	Introduction to Sociology	35	40
II	New Changes in Social Institutions	35	40
	(OR)		
II	Agrarian Society: Structure and Change	35	40

B. A. First Year Sociology Syllabus

Contents

IInd Semester

Paper No.	Title of the Paper	Internal Marks	External Marks
III	Basic Concepts in Sociology	35	40
IV	Contemporary Social Institutions	35	40
	(OR)		
IV	Indian Rural Sociology	35	40

S.R.T.M. UNIVERSITY: NANDED

Choice Based Credit System (CBCS)

Course Structure (New Scheme)

Faculty of Social Science

B. A. First Year Semester Pattern-2019-20

Sociology

Semester- Ist & IInd

Semester	Core Course	Paper No.	Name of Paper	Lectures/Week	Total no. of Lectures	CA	ESE	Total Marks	Credits
Semester I	CCSOC- I	I	Introduction to Sociology	4	55	35	40	75	3
	CCSOC-II	II	New Changes in Social Institutions (or) Agrarian Society: Structure and Change	4	55	35	40	75	3
			TOTAL- I	8	110	70	80	150	6
Semester II	CCSOC- I	III	Basic concept in Sociology	4	55	35	40	75	3
	CCSOC- II	IV	Contemporary Social Institutions (OR) Indian Rural Sociology	4	55	35	40	75	3
			TOTAL- II	8	110	70	80	150	6
			TOTAL- I/II	16	220	140	160	300	12

Note:

- ⌚ Assessment Shall consist of continuous Assessment (CA) and End of Semester Examination (ESE)
- ⌚ Weight age - % for ESE & % for CA
- ⌚ Each Paper is of 3 Credits
- ⌚ **Paper – (Elective) Transfer of Credit as per Student choice.**
- ⌚ 20 Marks for Test (10+10=20)

10 Marks for home assignment.

5 Marks for Seminar

B. A. First Year Semester Pattern-2019-20
(CBCS)
Sociology
Semester- Ist Paper- I
Introduction to Sociology

Credits: 03

Periods: 55

Marks: 75

Objectives:

The objective of the course is developing awareness among a good number student who in turn may able to address to problems arising in and out of society. This paper is introductory paper. The student learn basic concept of sociology and acquire scientific knowledge.

Course Content:

The course is designed to develop awareness of the relationship between individual beliefs: attitudes and behaviors and the wider society and culture.

Learning Outcome:

Student will be able to demonstrate on understanding of how social call affects individual life. To understand society in context of the sociology theory: knowledge concepts.

Chapter- 1: Introduction to Sociology:

- a) Origin and Development of Sociology.
- b) Definition and subject matter of sociology
- c) Development of Indian Sociology.

Chapter- 2: Basic Concepts:

- a) Society: Meaning and Characteristics.
- b) Social Structure: Meaning and Elements
- c) Social System: Meaning and Functional Problems.

Chapter- 3: Social Groups:

- a) Primary Group: Meaning and Characteristics.
- b) Secondary Group: Meaning and Characteristics.
- c) Importance of Social Groups.

Chapter- 4: Social Change:

- a) Meaning and Nature of Social Change.
- b) Factors of Social Change
- c) Obstacles in Social Change.

Chapter- 5: Social Development:

- a) Meaning and Nature of Social Development.
- b) Aims of Social Development.
- c) Concept in sustainable development.

REFERENCES:

1. Gisbert 1957. Fundamental of Sociology: Kolkata: Commercial Press.
2. M. Francis 1988. Modern Sociological theory an introduction. Delhi: Oxford University Press
3. Bottmove T B 1972. Sociology. A guide to problem and literature. Mumbai: George Allone and Unwin
4. Broom and Selzink 1957. Sociology. A systematic introduction: New Delhi : Allied publishers.
5. Maciver R M and Page C H 1967. An Introduction analysis. London: Macmillan
6. Rawat H K 2007. Sociology Basic Concepts: Jaipur: Rawat Publication
7. आगलावे प्रदीप 2011. समाजशास्त्रीय संकल्पना आणि सिद्धांत. नागपूर: साईनाथ प्रकाशन
8. क-हाडे बी.एम. 2008 समाजशास्त्र मूलभूत संकल्पना: नागपूर: पिंपळापूटे अँड पब्लिशर्स
9. खडसे भा.की. 2009. समाजशास्त्र मूलभूत संकल्पना. नागपूर: श्री मंगेश प्रकाशन
10. खैरनार दिलीप 2008. समाजशास्त्र परिचय: पुणे: डायमंड पब्लिकेशन.
11. नाडगोडे गुरूनाथ 2001. समाजशास्त्राची मूलतत्वे. पुणे: कॉन्टीनेंटल प्रकाशन
12. माने माणिक 2008. समाजशास्त्रीय संकल्पना. नागपूर: विद्या प्रकाशन
13. माची सूनिल 2008. समाजशास्त्राची ओळख. पुणे: डायमंड पब्लिकेशन
14. साळूखे सर्जेराव 1996. समाजशास्त्री मूलभूत संकल्पना. पुणे: नरेंद्र प्रकाशन
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Exam pattern (2019-2020) B A I Year

- CA: 35 Marks
(Two Test 10 Marks and One Home Assignment 10 Marks) Seminar 05 Marks
- ESI: 40 Marks
(University Theory Exam for 40 Marks for descriptive question
Three Long answer type question 10 Marks
(Each Question 10+10+10 = 30)
1. Short Notes (Any Two) 5+5+=10

Swami Ramanand Teerth Marathwada University Nanded

End of Exam

Faculty of Humanities

BA I year Sociology

Question Paper Pattern CBCS

With effect from 2019-20

Time 03 Hours

Marks 40

Q I	Descriptive Question	10 Marks
	OR	
	Descriptive Question	
Q II	Descriptive Question	10 Marks
	OR	
	Descriptive Question	
QIII	Descriptive Question	10 Marks
	OR	
	Descriptive Question	
QIV	Short Notes (Any Two)	10 Marks
	i)	
	ii)	
	iii)	
	iv)	

B. A. First Year Semester Pattern-2019-20
(CBCS)
Sociology
Semester- Ist Paper- II

New Changes in Social Institutions

Credits: 03

Periods: 55

Marks: 75

Objectives:

The main aim of human societies is to maintain control and order. The social structure which organizes and orders: creates social solidarity and stability in society. Institutions: specially are assigned this function of social order and control.

Contents:

Social Institutions are system of behavioral and relationship patterns that are density inter women and enduring: and function across an entire society. They order and structure the behavior of individuals by means of their normative character.

Learning Outcome:

Students will obtain a sociological understanding of diverse: social groups: organization and social institutions. Social institutions are usually conceived of as the basic focuses of social organization: common to all societies.

Chapter- 1: Introduction to Social Institutions:

- a) Meaning and characteristics of social Institutions.
- b) Importance of social Institutions.
- c) Concept of Institutionalization.

Chapter- 2: Marriage Institution:

- a) Meaning and characteristics of Marriage Institution.
- b) Recent Changes in Marriage Institution (Contract Marriage/ Inter caste Marriage)
- c) Issues in Marriage Institution: Live in Relationship: Problems of selection of mate.

Chapter- 3: Family Institutions:

- a) Meaning and characteristics of Family Institution.
- b) Recent Changes in Family Institution [(1) Women Empowerment (2) Women Dominancy
- c) Issues in Family Institutions: Domestic Violence: Old-Age Problems.

Chapter- 4: Education Institution:

- a) Meaning and Aims of Education.
- b) Types of Education: (1) Formal and (2) Informal
- c) Recent issues in Education Institution: Privatization: Problems in Higher Education.

Chapter- 5: Religion Institution:

- a) Meaning and Nature of Religion;
- b) Recent Changes in Religion Institution (Secularism: National Integration)
- c) Issues in Religion Institution: Communalism: Castism/ Sectism: Westernization

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- 25) धारवाडकर दीपक, भालेराव साहेबराव 2017. भारतीय समाज समकालीन समस्या. भोकर: रुद्राणी प्रकाशन.
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(OR)

B. A. First Year Semester Pattern-2019-20

(CBCS)

Sociology

Semester- Ist Paper- II

Agrarian Society: Structure and Change

Credits: 03

Periods: 55

Marks: 75

Objectives:

The objective of an agricultural society are to encourage an awareness of agriculture and promote improvements in the quality of life of persons living an agricultural community by Researching the needs of agricultural community and developing programs to meet those needs.

Contents:

In an Agrarian Society: cultivating the lands is the primary source of wealth. Such a society may acknowledge other means of live hood and work habits but stresses the importance of agriculture and farming. They have been the most common form of socio-economic organization for most of recorded human society.

Learning Outcome:

Thus Agrarian Societies are characterized by their dependence on outside energy flows: low energy: density: and the limited possibilities of converting one every form into another. In order to increase production an agrarian society must either increase the intensity of production.

Chapter- 1: Introduction:

- a) Concept of Agrarian Society
- b) Characteristics of Agrarian Society.
- c) Importance of Study of Agrarian Society.

Chapter- 2: Land Reform and Agrarian Society:

- a) Aims of Land Reform.
- b) Laws related to Land Reform.
- c) Impact of Land Reform on Agrarian Society.

Chapter- 3: Agrarian Society and Economy:

- a) Meaning and characteristics of Agrarian Economy.
- b) Current issues in Agrarian Economy.
- c) Role of Govt. schemes in Agrarian Economy.

Chapter- 4: Agrarian Society and Co-operative Movements:

- a) Meaning of and characteristics of Co-operative Movements.
- b) Co-operative Movements and its role in Agrarian Society.
- c) Changing nature of Co-operative Movements.

Chapter- 5: Green Revolution and Agrarian Society:

- a) Meaning of and Objectives of Green Revolutions.
- b) Benefits of Green Revolutions.
- c) Impact of Green Revolutions

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B. A. First Year Semester Pattern-2019-20 (CBCS)

Sociology Semester- IInd Paper- III Basic Concepts in sociology

Credits: 03

Periods: 55

Marks: 75

Objectives:

Basic concepts in sociology – Tool to think with society: humanly created organization of inter relationships that connects individuals in common culture.

Culture: Sets of tradition: rules: symbols that shape and are enacted as feelings thoughts: and behaviors of groups of people.

Content:

The five sociological concepts – A concept is an idea that helps us to organize our thoughts and perceptions or make sense of what we observe. In sociology the concepts socialization: culture: personality: social process and social control.

Outcome:

To understand the basic concepts in sociology and their fundamental theoretical interrelationship: such that students will be able to do fine: give examples: show interrelationships and demonstrate the relevance.

Chapter- 1: Socialization:

- a) Definition and Aims of Socialization.
- b) Agencies of Socialization.
- c) Significance of Socialization.

Chapter- 2: Culture:

- a) Meaning and Characteristics of Culture
- b) Types of Culture and Cultural Lag
- c) Importance of Culture.

Chapter- 3: Personality:

- a) Meaning and Characteristics of Personality.
- b) Impact factors on Personality.
- c) Role of Heredity and Environment in Personality Development

Chapter- 4: Social Process:

- a) Meaning and Types of Social Process.
- b) Integrative Social Process (Co-operation: Accommodation: Assimilation)
- c) Dis-integrative Social Process (Competition: Conflict)

Chapter- 5: Social Control:

- a) Meaning and necessity of Social Control.
- b) Agencies of Social Control (Folkways: Custom: Religion: Law: Social Media)
- c) Obstacles in Social Control

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B. A. First Year Semester Pattern-2019-20
(CBCS)
Sociology
Semester- IInd Paper- IV
Contemporary Social Institutions

Credits: 03

Periods: 55

Marks: 75

Objectives:

A definition of Contemporary Sociology: Indian Sociology is a term that describes practitioners who use sociological theories and methods outside of academic setting with the aim to produce positive social change through active intervention.

Contents:

Social institution are system of behavioral and relationship patterns that are density interwoven and enduring and function across an entire of individuals by means of their normative character.

Outline:

Institutions can refer to mechanism of social order: which govern the behavior of set of individuals within a given community. Moreover: institutions are identified with social purpose: transcending individuals and intention by mediating the rules that govern living behavior. Debates about the social impact of sociology have been historically centered.

Chapter- 1: Political Institution:

- a) Meaning and characteristics of Political Institution.
- b) Recent changes in Political Institution-Women Participation: Women leadership
- c) Issues in Political Institution – Right to Voting. Voting Awareness

Chapter- 2: Economic Institution:

- a) Meaning and characteristics of Economic Institution.
- b) Recent changes in Economic Institution- Online Payment: Improvement of below Poverty.
- c) Issues in Economic Institution-Exclusion of Middle Class: Impact of Global Corporations.

Chapter- 3: Kinship:

- a) Meaning and Importance of Kinship.
- b) Recent changes in Kinship- Equality in Male & Female: Increase of Secondary Relation
- c) Issues in Kinship- Generation Gap: Decreases in Kinship Values.

Chapter- 4: Jurisdiction:

- a) Meaning and Importance of Jurisdiction.
- b) Recent change in Jurisdiction- Fast Track Court: Transparency in Jurisdiction.
- c) Issues in Jurisdiction-Delay of Justice: Implementation: Increasing Tendency of Dictatorship.

Chapter- 5: Application of Sociological Knowledge:

- a) Origin and development of Applied Sociology.
- b) Definition and Importance of Applied Sociology
- c) Scope of Applied Sociology – Clinical: Social-engineering: public

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- १८) कांबळे नारायण 2014. उच्च शिक्षणा पृढील आढाणे. औरंगाबाद: चिन्मय पब्लिकेशन.
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- 33) राउत एन यू. 2013. महिला सुरक्षा एवं समाज. जयपूर: सत्यम पब्लिशर्स अँड डिस्ट्रीब्यूटर्स.
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(OR)
B. A. First Year Semester Pattern-2019-20
(CBCS)
Sociology
Semester- IInd Paper- IV
Indian Rural Sociology

Credits: 03

Periods: 55

Marks: 75

Objectives:

The course aims at equipping students with skill and knowledge in basic sociological theories to enable them to effectively work with communities in solving identified problems for livelihood improvement. The specific objectives are to apply sociological principles in addressing rural development.

Content:

Rural Sociology is field of applied sociological research and training that historically focused on rural people and place. Rural sociology is the sociology of the village society. Here sociological principles are applied for studying rural society.

Outcome:

Importance of rural sociology in agricultural extension and interrelationship & with processes. This course explores social life along the rural community and also provides a broad introduction to be issues and perspectives in rural sociology.

Chapter- 1: Rural Society:

- a) Meaning and characteristics of Rural Society.
- b) Importance of Rural Society.
- c) Recent changes in Rural Society.

Chapter- 2: Rural Family Institution:

- a) Meaning and Characteristics of Rural Family.
- b) Nuclear Family and Joint Family: Meaning and Characteristics.
- c) Changing nature of Rural Joint Family

Chapter- 3: Rural Development Programmes:

- a) Meaning and Characteristics of Rural Development Programme.
- b) Swachh Bharat Abhiyan: Need of Water Management
- c) Advantages of Rural Development Programmes.

Chapter- 4: Rural Social Change:

- a) Meaning and Nature of Rural Social Change.
- b) Factor responsible of Rural Social Change.
- c) Impact of urbanization on Rural Society.

Chapter- 5: Application of Social Knowledge:

- a) Origin and development of Applied Sociology.
- b) Definition and Importance of Applied Sociology.
- c) Scope in Applied Sociology - Clinical: Social-engineering public

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3. Gupta & Gupta 1988. Rural Development in India. Bombay: Himalaya Publishing House
4. Marriott Mckum 1963. Village India Chicago. (USA) The University Press
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21. देशमुख बी.टी. 1998. महाराष्ट्रातील जलसिंन अनुशेष. नागपूर: पिंपळापूरे अँड कंपनी.
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* * * * *

॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

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संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे CBCS Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्याबाबत.

परिपत्रक

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ३० एप्रिल २०१९ रोजी संपन्न झालेल्या ४३व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.५/४३-२०१९ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्यात येत आहेत.

- १) बी.ए.—प्रथम वर्ष—इंग्रजी (अनिवार्य, अतिरिक्त (द्वितीय भाषा), फंक्शनल इंग्रजी, ऐच्छिक)
- २) बी.ए.—प्रथम वर्ष—हिंदी (द्वितीय भाषा, ऐच्छिक)
- ३) बी.ए.—प्रथम वर्ष—मराठी (द्वितीय भाषा, ऐच्छिक)
- ४) बी.ए.—प्रथम वर्ष—पाली (द्वितीय भाषा, ऐच्छिक)
- ५) बी.ए.—प्रथम वर्ष—संस्कृत (द्वितीय भाषा, ऐच्छिक)
- ६) बी.ए.—प्रथम वर्ष—उर्दू (द्वितीय भाषा, ऐच्छिक)
- ७) बी.ए.—प्रथम वर्ष—अर्थशास्त्र
- ८) बी.ए.—प्रथम वर्ष—भूगोल
- ९) बी.ए.—प्रथम वर्ष—इतिहास
- १०) बी.ए.—प्रथम वर्ष—सैनिकशास्त्र
- ११) बी.ए.—प्रथम वर्ष—तत्त्वज्ञान
- १२) बी.ए.—प्रथम वर्ष—राज्यशास्त्र
- १३) बी.ए.—प्रथम वर्ष—मानसशास्त्र
- १४) बी.ए.—प्रथम वर्ष—लोकप्रशासन
- १५) बी.ए.—प्रथम वर्ष—समाजशास्त्र
- १६) बी.ए.—प्रथम वर्ष—अॅडमिनिस्ट्रेटिव्ह सर्व्हिस

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,
विष्णुपुरी, नांदेड — ४३१ ६०६.
जा.क्र.: शैक्षणिक—०१/परिपत्रक/पदवी—सीबीसीएस अभ्यासक्रम/
२०१९-२०/६६
दिनांक : १७.०६.२०१९.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

स्वाक्षरित /—
उपकुलसचिव
शैक्षणिक (१—अभ्यासमंडळ) विभाग



SWAMI RAMANAND TEERTH

MARATHWADA UNIVERSITY, NANDED

FACULTY OF HUMANITIES

SYLLABUS OF URDU

B.A.I Year

B.A., B.Sc., B.Com. B.F.A. and B.S.W.

(Second Language)

B. A. I Year (Optional)

Semester + CBCS Pattern

Semester I & II

With effect from June 2019

**Distribution of Credits for
B.A., B.Sc., B.Com. B.F.A. and B.S.W. (First Year)
Urdu (Second Language)
Semester +CBCS Pattern
Semester I & II Paper – I & II
W.E.F. from June 2019**

Semester	Paper	Name of the Course	Lecture Per Week	Total Periods	Internal Evaluation Marks (C.A.)	Marks of Semester ESE	Total Marks	Credits
I	I	Urdu S.L. (Urdu Shairi)	04	55	35	40	75	03
II	II	Urdu S.L. (Urdu Nasr)	04	55	35	40	75	03

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
Distribution of Credits for B.A., B.Sc., B.Com. B.F.A. and B.S.W. (First Year)
Urdu (Second Language)
Semester +CBCS Pattern
Semester I Paper – I
(Urdu Shairi)
W.E.F. June 2019

Credits -03

(Theory-ESE 40 &C.A. 35 = 75 Marks)

UNIT1 : Masnavi

Topic for discussion:

Masnavi ki tareef aur fun.

- | | | |
|------------------------------|---|---------------|
| 1. Baarish aur Meer ka makan | : | Mir Taqi Meer |
| 2. Saqi nama (Talkhees) | : | Allama Iqbal |

UNIT 2: Qasida

Topic for discussion:

Qasida ki tareef aur fun.

- | | | |
|-----------------------------------|---|-----------------|
| 1. Dar madh-e- Bahadur Shah Zafar | : | Mirza Ghalib |
| 2. Dar tahniyat-e- ghusl-e- sehat | : | |
| Nawab Tajammul Hussain Khan | : | Muneer Lacknowi |

UNIT 3: Marsiya

Topic for discussion:

Marsiya ki tareef aur fun.

- | | | |
|--|---|--------------|
| 1. Shahadat –e- Hazrat Imam-e- Hussain | : | Mirza Dabeer |
| 2. Marsiya-e- Daagh | : | Allama Iqbal |

UNIT 4: Qataat

Topic for discussion

:Qataat ki tareef aur fun.

- | | | |
|---------------------|---|----------------|
| 1. Adl-e- Jahangiri | : | Shibli Noumani |
|---------------------|---|----------------|

(3)

2. Farzi lateefa	:	Akbar Allahabadi
3. Nauha-e- Delhi	:	Maulana Hali
4. Shair ka dil	:	Josh Malihabadi
5. Mulla Aur Bahisht	:	Allama Iqbal

UNIT 5:C.A. (Continuous Assessment)

- 1) Two class tests during the first semester for 10 Marks each.
- 2) Home Assignment / Seminar during the first semester for 15 Marks.

Prescribed book:

- 1) Khyaban-e- Adab (Poetry) By Azeemul Haq Junaidi
Educational Book House, Aligarh (U.P.)

Paper Pattern

(Theory- 40)

Q.1] One long answer type question with internal option.	15
Q.2] One long answer type question with internal option.	15
Q.3] Short Note: A) One Short answer type question with internal option	05
B) One Short answer type question with internal option	<u>05</u>
Total	<u>40</u>

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Distribution of Credits for B.A., B.Sc., B.Com. B.F.A. and B.S.W. (First Year)

Urdu (Second Language)

Semester +CBCS Pattern

Semester II Paper – II

(Urdu Nasr)

W.E.F. June 2019

Credits -03

(Theory-ESE 40 &C.A. 35 = 75 Marks)

1. Unit: 1 Dastan:

Topics for discussion:

Dastan ki tareef, Dastan ka fun aur ajzaye tarkeebi

- Sair teesre darvesh ki : Mir Amman Dahelvi
- Bandar ki Taqreer : Rajjab Ali Baig Suroor

2. Unit: 2 Novel:

Topics for discussion:

Novel ki tareef, Novel ka fun aur ajzaye tarkeebi

- Mirza Zaherdar Baig : Deputy Nazeer Ahmed
- Laila ke khutoot : Qazi Abdul Ghaffar

3. Unit:3 Afsana:

Topics for discussion:

Afsana ki tareef, Afsane ka fun aur ajzaye tarkeebi

- Noor –o- naar : Ali Abbas Hussaini
- Kalu bhangji : Krishan Chander
- Bhola : Rajindar Singh Bedi

4. Unit 4: C.A. (Continuous Assessment)

- Two (02) class tests during the second semester for 10 Marks each.
- Home Assignment / Seminar during the second semester for 15 Marks.

Prescribed books:

1. Nasr-e-Urdu for B.A. By Educational Book House, Aligarh (U.P.)
2. Naya Adabi Nisab. By Educational Book House, Aligarh (U.P.)
3. Intekhab-e- Urdu nasr(1920 ke baad) By Dr.Masood Alam
4. Urdu Afsane,Inshayiye aur Drame By Qasim Siddiqui
Educational Book House, Aligarh (U.P.)
5. Intekhab –e- Urdu Afsana By U.P. Urdu Academy, Lacknow (U.P.)

Paper Pattern

(Theory- 40 Marks)

Q.1] One long answer type question with internal option.	15
Q.2] One long answer type question with internal option.	15
Q.3] Short Note: A) One Short answer type question with internal option	05
B) One Short answer type question with internal option	<u>05</u>
Total	<u>40</u>

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Distribution of Credits for B.A. (First Year)

Urdu (Optional)

Semester I & II + CBCS Pattern

W.E.F. June 2019

Semester	Core Course	Paper	Name of the Course	Lecture Per Week	Total Periods	Internal Evaluation (C.A.)	Marks Of Semester ESE	Total Marks	Credits
I	Urdu	cc-urd I	Dastan aur Novel	04	55	35	40	75	03
	Urdu	cc-urd II	Qasida aur Ghazal	04	55	35	40	75	03
	Total			08	110	70	80	150	06
II	Urdu	cc-urd III	Afsana Aur Drama	04	55	35	40	75	03
	Urdu	cc-urd IV	Masnavi Aur Nazm	04	55	35	40	75	03
	Total			08	110	70	80	150	06
	Grand Total Sem. I & II			16	220	140	160	300	12

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Distribution of Credits for B.A. (First Year)

Urdu (Optional)

Semester + CBCS Pattern Structure

Semester I Paper – I

Dastan Aur Novel

W.E.F. June 2019

Credits -03

(Theory-ESE 40 &C.A.35 = 75 Marks)

Aims & Objectives:

1. To improve the knowledge and understanding of Urdu Dastan and Novel.
2. To progress and understanding the knowledge about Dastan and Novel and its social, cultural and historical background.
3. To improve the knowledge and understanding about the art and technique of Dastan and Novel.
4. To improve the knowledge of prescribed Dastan and Novel.
5. To improve the knowledge about, prescribed Dastan nigar, Novel nigar with their art, technique and style.

Unit.1 Dastan

Topic for Discussion:

1. Dastan ki Tareef aur us ka fun
2. Dastan ke ajzaye Tarkeebi
3. Urdu Dastan ka aaghaz o irtequa
3. 4.Critical review of prescribed Dastan and dastan nigar.

Detailed study:

1. Dastan :

- fasana-e- Ajayeb: “Jaane Alam ka Khareedna tote ka aur Anjuman Ara ka nadeeda aashiq hona” (Page 37 to 52) by Rajjab Ali Baig Suroor

- Fasana-e- Azad : “Darogha ki pancho ghee me aur sar kadhayi me
: By Pandit Ratan Nath Sarshar

Unit 2. Novel

Topic for Discussion:

- Novel ki tareef aur us ka fun
- Novel ke ajzay-e- tarkeebi
- Urdu Novel Ka Agaz-o-Irteqa

Detailed study:

- Novelette : Agle janam mohe bitya na kijiyo by Qurrat-ul-Ain Hyder
- Qurrat-ul-Ain Hyder ki Novel nigari.

Unit 3. C.A. (Continuous Assessment)

- 1) Two (02) class tests during the first semester for 10 Marks each.
- 2) Home Assignment / Seminar during the first semester for 15 Marks.

Prescribed Books:

- Fasana –e – Ajayeb By Rajjab Ali Baig Suroor
Edited: Rasheed Hasan Khan
Publisher: Anjuman Taraqqi Urdu (Hind)
Urdu Ghar 212 Rouse Avenue, New Delhi 110002
- Naya Adabi Nisab By Athar Parvez
Educational book house, Muslim University Market, Aligarh 200202 (U,P.).
- Char Novelette By Qurrat-ul-Ain Hyder
Educational book house, Muslim University Market, Aligarh 200202 (U,P.)

Paper Pattern

(Theory 40 Marks)

Q.1] One long answer type question with internal option.	15
Q.2] One long answer type question with internal option.	15
Q.3] Short Note: A) One Short answer type question with internal option	05
B) One Short answer type question with internal option	<u>05</u>
Total	<u>40</u>

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

B.A. (First Year)

Urdu (Optional)

Semester +CBCS Pattern

Semester – I Paper - II

Qasida aur Ghazal

W.E.F. June 2019

Credits -03

(Theory- ESE 40& C.A.35 = 75Marks)

Aims & Objectives:

- To improve the knowledge and understanding of Qasida and Ghazal.
- To progress and understanding the knowledge about Qasida and Ghazal and its social, cultural and historical background.
- To improve the knowledge and understanding about the art and technique of Qasida and Ghazal.
- To improve the knowledge about Qasida, Ghazal , Qasida go and Ghazal go Poets with their art, technique and style.

Unit-1 Qasida:

Topics for discussion:

Qaside ka fun, Tareef aur ajzaye tarkeebi, Qaside ka samaji –o- tahzeebi pas manzar, Urdu Qaside ka aaghaz –o- irtequa, Qaside ke zawal ke asbab.

Prescribed Qasida go shora ki qasida nigari.

Detailed Study:

1. Ab saamne mere jo koi peer-o-jawan hai (Qasida Shaher aashob)
By Mirza Mohd.Rafi Sauda
2. Zahe nishat agar kijiye ise tahreer (Dar madh-e- Bahadur Shah Zafar)
By Shaikh Mohd.Ibrahim Zaouq

Unit-2 Ghazal :

Topics for discussion:

Ghazal ki tareef aur fun, Ghazal ke mauzooat, Urdu Ghazal ka aaghaz –o- irtequa.
Prescribed Ghazal go shora ki ghazal goee..

Detailed Study:

Wali Aurangabadi:	1) Jise ishq ka teer kaari lge. 2) Aashiqan par hamesha roshan hai
Khaja Meer Dard	1) Madarsa ya dair tha ya kaaba ya but khana tha 2) Hum tujh se kis hawas ki falak.justaju karen
Meer Taqi Meer	1) Kya kroon sharha khasta jaani ki 2) Ulti ho gayeen sab tadbiren kuch na dawa ne kaam..
Khaja Hyder Ali Aatish	1) Sun to sahi jahan mein hai tera fasana kya 2) Dahan par hain un ke guman kaise kaise
Mirza Ghalib	1) Arz-e-niyaz-e-ishq ke qabil nahi raha.. 2) Husn-e-mah, gar che ba hangam-e-kamal achcha hai

Unit 3 C.A. (Continuous Assessment)

- 1) Two (02) class tests during the first semester for 10 Marks each.
- 2) Home Assignment / Seminar during the first semester for 15 Marks.

Prescribed book:

- 1) Intekhab-e-Manzoomat (Vol.II) by Uttar Pradesh Urdu Academy, Lacknow.

Reference books:

- 1) Urdu Qasida nigari By Umme Ashraf Hani,
Educational Book House, Aligarh
- 2) Urdu Shayei ka tanqeedi mutaliya By Sunbul Nigar
- 3) Ghazal aur Mutaliya-e- ghazal By Dr.Ibadat Bareilwi
Educational Book House, Aligarh.

Paper Pattern

(Theory- 40 Marks)

Q.1] One long answer type question with internal option.	15
Q.2] One long answer type question with internal option.	15
Q.3] Short Note: A) One Short answer type question with internal option	05
B) One Short answer type question with internal option	<u>05</u>
Total	<u>40</u>

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

B.A. (First Year)

Urdu (Optional)

Semester +CBCS Pattern

Semester – II Paper - III

Afsana aur Drama

W.E.F. June 2019

Credits -03

(Theory-ESE 40 &C.A. 35 = 75 Marks)

Aims & Objectives:

1. To improve the knowledge and understanding of Urdu Afsana and Drama.
2. To progress and understanding the knowledge about Afsana,Drama and its social, cultural and historical background .
3. To improve the knowledge and understanding about the arts and technique of Afsana and Drama.
4. To improve the knowledge about, prescribed Afsana and Drama , Afsana nigar and Drama nigar with their art, technique and style.

Topics for discussion:

1. Afsane ki tareef aur fun
2. Urdu Afsane ka aaghaz-o-irtequa
3. Afsane ke ajzay-e- tarkeebi
4. Critical and analytical study of prescribed afsana and afsana nigar

Unit 1.Afsana:

Detailed study:

1. Laajwanti : Rajinder Singh Bedi
2. Mahalakhmi ka pool : Krishan Chander
3. Photographer : Qurrat –ul-Ain Hyder
4. Baghban : Aziz Ahmed

Unit 2: Drama :

Topics for discussion

1. Drame ki tareef aur fun
2. Dram eke ajzaye tarkeebi
3. Urdu Drame ka aaghaz-o-irtequa
4. Drame ki qismen
5. Critical and analytical study of prescribed drama and drama nigar

Detailed study:

5. Rustum –o-Sohrab : Aagha Hashar Kaashmiri
6. Talash : Imtiyaz Ali Taaj
7. Jonk : Upendar Nath Ashk

Unit 3 C.A. (Continuous Assessment)

- 1) Two (02) class tests during the second semester for 10 Marks each.
- 2) Home Assignment / Seminar during the second semester for 15 Marks.

Prescribed Books:

1. Urdu ke tera afsane : Edited by Athar Parvez
2. Hamare Pasandeeda Asane : Edited by Athar Parvez
3. Urdu Afsane ,Inshaiye aur Drame : Edited by Mohd.Qasim Siddiqui
4. Khake ,Inshaiye, Drame aur Afsane: Edited by Mohd.Qasim Siddiqui

Reference books:

1. Fane afsana nigari : Viqar Azeem
2. Urdu Afsane ka jayeza : Fatima Firdous
3. Naya Afsana : Viqar Azeem
4. Urdu Afsana :riwayat o masayel : Gopi chand Narang
5. Urdu Afsane ka fanni o technici mutaliya :Dr.Hameedullah Khan
6. Urdu Drame ki tareeque : Ishrat Rahmani
7. Urdu Drama ka irtequa : Ishrat Rahmani
8. Urdu Drama fun aur riwayat : Dr.Shahed Hussain

Paper Pattern

(Theory- 40 Marks)

Q.1] One long answer type question with internal option.	15
Q.2] One long answer type question with internal option.	15
Q.3] Short Note: A) One Short answer type question with internal option	05
B) One Short answer type question with internal option	<u>05</u>
Total	<u>40</u>

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

B.A. (First Year)

Urdu (Optional)

Semester +CBCS Pattern

Semester – II Paper - IV

Masnavi aur Nazm

W.E.F. June 2019

Credits -03

(Theory-ESE 40 &C.A. 35 = 75 Marks)

Aims & Objectives:

1. To improve the knowledge and understanding of Urdu Masnavi and Nazm..
2. To progress and understanding the knowledge about Masnavi and Nazm and its social, cultural and historical background.
3. To improve the knowledge and understanding about the art and technique of Masnavi and Nazm..
4. To improve the knowledge about prescribed Masnavi and Nazm.and Masnavi nigar and Nazm nigar Poets with their art, technique and style.

Unit-1 Masnavi:

Topic for Discussion:

Masnavi ki tareef, Fun aur Mauzooat, Masnavi ka samaji aur tahzeebi pas manzar, Urdu Masnavi ka aaghaz-o-irtequa, prescribed masnavi nigar shora ki masnavi nigari

Detailed Study:

- 1) Sehr-ul-Bayan (Talkhees) By Meer Hasan dahelvi
- 2) Gulzar-e-Naseem (Talkhees) By Pandit Daya Shankar Naseem

Prescribed Book:

Intekhab-e-Manzoomat Vol-II By U.P.Urdu Academy Lucknow.(U.P.)

Unit-2 Nazm:

Topic for Discussion:

Nazm ki tareef aur Mauzooat, Nazm ki Aqsaam (Paband Nazm,Moarra Nazm,Azad

Nazm) Urdu Nazm ka aaghaz-o-irtequa, Prescribed nazm nigar shora ki nazm nigari

Detailed Study:

- 1) Aadmi nama : Nazeer Akbarabadi
- 2) Intekhab-e-Musaddas : Maulana Hali
(Woh Nabiyon mein rahmat laqab)
- 3) Naya Shiwala : Allama Iqbal
- 4) Uroos-e-hubb-e-watan : Suroor Jahanabadi
- 5) Nisar main teri galiyon pe ay watan...: Faiz Ahmed Faiz

Unit 3 C.A. (Continuous Assessment)

- 1) Two (02) class tests during the second semester for 10 Marks each.
- 2) Home Assignment / Seminar during the second semester for 15 Marks.

Reference books:

- 1) Urdu Shayeri ka tanqeedi Mutaliya By Dr.Sunbul Nigar
- 2) Urdu ki teen masnaviyan By Khan Rasheed
- 3) Urdu Masnavi ka irtequa By Abdul Khader sarwari
- 4) Nazm-e- Jadeed ki Karwaten By Wazeer Aagha
Educational Book House, Aligarh.

Paper Pattern

(Theory- 40 Marks)

Q.1] One long answer type question with internal option.	15
Q.2] One long answer type question with internal option.	15
Q.3] Short Note: A) One Short answer type question with internal option	05
B) One Short answer type question with internal option	<u>05</u>
Total	<u>40</u>

* * * * *



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड— ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

Established on 17th September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



ACADEMIC (1-BOARD OF STUDIES) SECTION

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कला विद्याशाखेतील पदवी स्तरावरील उर्दू
विषयाचा सी.बी.सी.एस. पॅटर्नचा
अभ्यासक्रम शैक्षणिक वर्ष २०१६-१७
पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक १२ मे २०१६ रोजी संपन्न झालेल्या ३६व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.९/३६-२०१६ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील कला विद्याशाखेतील पदवी स्तरावरील खालील विषयाचा **C.B.C.S. (Choice Based Credit System) Pattern** चा अभ्यासक्रम शैक्षणिक वर्ष २०१६-१७ पासून लागू करण्यात येत आहे.

१. बी.ए./बी.कॉम./बी.एस्सी. उर्दू (द्वितीय भाषा आणि ऐच्छिक) — प्रथम वर्ष (सत्र पहिले)

सदरील अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहे. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,
विष्णुपुरी, नांदेड — ४३१ ६०६.
जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदवी-सीबीसीएस अभ्यासक्रम/
२०१६-१७/८९०
दिनांक : १२.०८.२०१६.

स्वाक्षरित /—
संचालक
महाविद्यालय व विद्यापीठ विकास मंडळ

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. परीक्षा नियंत्रक यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.



**SWAMI RAMANAND TEERTH MARATHWADA
UNIVERSITY, NANDED**

**Urdu subject (U.G.) Syllabus
Semester + CBCS Pattern**

**B.A., B.Sc., B.Com - URDU (Second Language)
and
B.A. - I Year URDU (Optional)
(Semester + CBCS Pattern)**

w.e.f. June 2016

Distribution of Credits for B.A., B.Sc., B.Com. First Year
Urdu (Second Language)
Under the Faculty of Arts
Semester + CBCS Pattern Structure
w.e.f. June 2016

Subject : Urdu Second Language
Semester-I

Semester	Paper	Name of the Course	Lectures per week	Total Periods	Internal Evaluation (CA)	Marks of Semester (ESE)	Total Marks	Credits
I	I	Urdu Second Language (S.L.)	04	55	35	40	75	03
II	II	Urdu Second Language (S.L.)	04	55	35	40	75	03

**SWAMI RAMANAND TEERTH MARATHWADA
UNIVERSITY, NANDED**

**Distribution of Credits for B.A., B.Sc., B.Com. First Year
Urdu (Second Language)**

Under the Faculty of Arts

Semester + CBCS Pattern Structure

w.e.f. June 2016

Subject : Urdu (Second Language)

Semester-I

Periods : 10

Unit-I Poetry :

- | | | | |
|----|------------------------|-----|---|
| 1] | Wali :- | (1) | Muflisi Sab Bahar Khoti Hai |
| | | (2) | Yaad Karna Har Ghadi Us Yaar Ka |
| 2] | Mirza Mazhar :- | (1) | Gai Akhir Jalakar Gul Kay Hatoon
Ashiyan Apna. |
| | | (2) | Yeh Dil Kab Ishq Kay Khabil
Raha Hai. |
| 3] | Khaja Meer :- | (1) | Yunhi Tahri Kay Abhi Jaye ga |
| | Dard | (2) | Tumahten Chand Apne Zime Dhar Chale |
| 4] | Meer Taqui :- | (1) | Hasti Apni Hubab Ki Si Hai |
| | | (2) | Zakhm Jhele Daag Khaye Bahut |
| 5] | Galib :- | (1) | Ye na thi Hamari Kismat |
| | | (2) | Hazaro Khaishen Aisi Ke |

Unit-II (A) Sahafat**Periods : 35**

- 1] Sahafat Ki Taareef Aur Agaz-O-Irtequa
- 2] Khabar, Idariya, Coloum Nawesi, Feature.
- 3] Urdu Ke Ahem Sahafi.
- 4] Urdu Ke Moujuda Ahem Akhbar.

(B) Reportaz Nigari :-

- 1] Reportaznigari Kya Hai.
- 2] Reportaznigari Ka Aagaz-O-Irtequa.

Urdu Ke Ahem Reportaz :-

- 1] Ek Hangama : Sufiya Akhtar.
- 2] Chatha Dariya : Fikar Tonsvi
- 3] Pophate : Khadija Mastoor

Unit-III Continous Assessment (C.A.) [Marks : 35]**Period : 10**

- 1] Two (2) class tests during first semester for 10 marks each.
- 2] One (1) Assignment during first semester for 15 marks.

Text Books :-

- 1] Nigarishat-e-Adab By Dr.Syed Shujaut Ali
Dr.Irshad Ahmad Khan
(Educational Book House Aligarh)
- 2] Urdu mein reportaz Nigari By Dr.Abdul Aziz
- 3] Urdu Mein Reportaz Nigari Ka Aagaz-O-Irtequa By Talat Gul
- 4] Urdu Sahafat By Iftekhar Khookar

Distribution of Credits for B.A., B.Sc., B.Com. First Year
Urdu (Second Language)
Semester + CBCS Pattern Structure
w.e.f. June 2016
Subject : Urdu (Second Language)
Semester-I (Paper-I)

Credits-03

(Theory-30 MCQ 10 = Total 40)

Paper Pattern

	Marks
Q.1. Two reference to context from Gazliyat.	[10]
Q.2. One long question on Urdu Sahafat with internal option.	[10]
Q.3. One long question on Reportaz Nigari with internal option.	[10]
Q.4. MCQ on whole syllabus.	[10]

Total Marks [40]

**SWAMI RAMANAND TEERTH MARATHWADA
UNIVERSITY, NANDED**

**Distribution of Credits for B.A. First Year
Urdu (Optional)**

Under the Faculty of Arts

Semester + CBCS Pattern Structure

w.e.f. June 2016

Subject : Urdu (Optional)

Credits-03

(Theory-30 MCQ 10 = Total 40)

Semester	Paper	Name of the Course	Lectures per week	Total periods	internal evaluation CA	Marks of Semester ESE	Total Marks	Credits
I	I	Dastan Aur Afsana	04	55	35	40	75	03
	II	Qasida Aur Gazal	04	55	35	40	75	03
II	III	Dastan Aur Novel	04	55	35	40	75	03
	IV	Masnavi Aur Nazm	04	55	35	40	75	03

**Distribution of Credits for B.A. First Year
Urdu (Optional)**

Under the Faculty of Arts

Semester + CBCS Pattern Structure

w.e.f. June 2016

Subject : Urdu (Optional) (Paper-I)

Title : Dastan Aur Afsana

Credits 03 (Marks : 75)

Periods : 55

(ESE-40 Marks & C.A.35)

(30 Theory + 10 MCQ)

Unit-I : Dastan

Period : 20

- 1] Tareef, Agza-O-Irtequa, Ajzai tarkibi
Detailed Study : Bagh-O-Bhar.
 - i] Sair Pahle Darweshki
 - ii] Sair Doosre Darweshki.

Unit II : Afsana

Period : 25

- 1] Tareef aur Agaz-O-Irtequa.
Prescribed Afsanay
 - i] Kafan : Prem Chand
 - ii] Toba Tek Singh : Sadat Hasan Manto
 - iii] Chauthi Ka Joda : Asmat Chughtai
 - iv] Noor-O-Nar : Ali Abbas Hussani

Unit III : Continuous Assessment (CA) [Marks : 35]

Period : 10

- 1] Two (2) class tests during first semester for 10 marks each.
- 2] One (1) Assignment during first semester for 15 marks.

Distribution of Credits for B.A. First Year

Urdu (Optional)

Semester + CBCS Pattern Structure

w.e.f. June 2016

Subject : Urdu (Optional) (Paper-I)

Title : Dastan Aur Afsana

Credits-03

(Theory-30 MCQ 10 = Total 40)

Paper Pattern

	Marks
Q.1. Two reference to context from short stories.	[10]
Q.2. One Question on Dastan with internal option.	[10]
Q.3. One question of Afsana with internal option.	[10]
Q.4. MCA (10) question whole syllabus.	[10]
	<hr/> Total Marks [40] <hr/>

Distribution of Credits for B.A. First Year
Urdu (Optional)
Under the Faculty of Arts
Semester + CBCS Pattern Structure
w.e.f. June 2016
Subject : Urdu (Optional) (Paper-II)
Title : Qasida aur Gazal

Credits 03 (Marks : 75)

Periods : 55

(ESE-40 Marks & C.A.35)

(30 Theory + 10 MCQ)

Unit-I : Qasida : Tareef Agaz-O-Irtequa [25]

- i] Qasida : Tazheek-E-Rozgar : Md.Rafi Sauda
- ii] Qasida Madhi Khairul Mursaleen (Mohsin Kakurvi)

Unit II : Gazal : [20]

Momini 1] Asar Usko Zara Nahin Hota.

2] Ghairon Pe Khul Na Jaye Kahin Raaz.

Daag 3] Khatir Say Ya Lehaz Say.

4] Saaz Yeh Kina Saaz Kiya Jane.

Shaad 5] Khamoshi Say Musibat Aur Bhi Sangeen Hoti Hai.

6] Tamanon Main Uijhaya Gaya Hoon.

Asgar 7] Alam-E-Rozgaar Ko Aasan Bana Diya.

8] Asrar-E-Ishq Hai Dil-E-Muztar Liye Huye.

Wajd 9] Khush Jamalon Ki Yaad Aati Hai.

10] Yeh Ranj Na Yeh Jor-O-Sitam Yaad Rahein Ge.

Test Books :-

- 1] Nigarishat-e-Adab By Dr.Syed Shujaut Ali
Dr.Irshad Ahmad Khan
(Educational Book House Aligarh).

- 2] Intekhab-E-Manzoomaat Edited and Published by
U.P. Urdu Academy Lucknow

Unit III : Continuous Assessment (CA) [Marks : 35] Period : 10

- 1] Two (2) class tests during first semester for 10 marks each.
- 2] One (1) Assignment during first semester for 15 marks.

Distribution of Credits for B.A. First Year

Urdu (Optional)

Semester + CBCS Pattern Structure

w.e.f. June 2016

Subject : Urdu (Optional) (Paper-II)

Title : Qasida aur Gazal

Credits-03

(Theory-30 MCQ 10 = Total 40)

Paper Pattern

	Marks
Q.1. Two reference to context from Ghazaliyat.	[10]
Q.2. One long question on Qasida with internal option.	[10]
Q.3. One long question on Ghazal with internal option.	[10]
Q.4. MCQ (10) question on whole syllabus.	[10]
<hr/> Total Marks [40] <hr/>	

*** * ***



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड— ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

Established on 17th September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



ACADEMIC (1-BOARD OF STUDIES) SECTION

Phone: (02462) 229542

Fax : (02462) 229574

Website: www.srtmun.ac.in

E-mail: bos.srtmun@gmail.com

कला विद्याशाखेतील पदवी स्तरावरील उर्दू
विषयाचा सी.बी.सी.एस. पॅटर्नचा
अभ्यासक्रम शैक्षणिक वर्ष २०१६-१७
पासून लागू करण्याबाबत.

परिपत्रक

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील कला विद्याशाखेतील पदवी स्तरावरील खालील विषयाचा **C.B.C.S. (Choice Based Credit System) Pattern** चा अभ्यासक्रम शैक्षणिक वर्ष २०१६-१७ पासून लागू करण्यात येत आहे.

१. बी.ए./बी.कॉम./बी.एस्सी. उर्दू (द्वितीय भाषा आणि ऐच्छिक) — प्रथम वर्ष (सत्र दुसरे)

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,
विष्णुपुरी, नांदेड — ४३१ ६०६.
जा.क्र.: शैक्षणिक—०१/परिपत्रक/पदवी—सीबीसीएस अभ्यासक्रम/
२०१६-१७/२०६३
दिनांक : १७.१२.२०१६.



स्वाक्षरित /—
संचालक
महाविद्यालय व विद्यापीठ विकास मंडळ

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. परीक्षा नियंत्रक यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

Swami Ramanand Teerth Marathwada University, Nanded

Distribution of Credits for B.A. B.Sc. B.Com First Year

Urdu (Second Language)

Under the Faculty of Arts Semester+CBCS Pattern Structure W.E.F. June 2016

Credits:-03

Semester –II – Paper II

(Marks 75)

Unit : 1 **Khakanigari** period:10

- 1) Namdevmali : Abdul Haque
 - 2) Gudri ka lal : Abdul Haque
 - 3) Sajjad Zaheer : Mujtaba Hussain
 - 4) Krishan Chandar : Mujtaba Hussain
- (Aadmi hi Aadmi)

Unit : 2 (A) **Qawaid** period : 35

- i) Ism ki quismein
 - ii) Sifat ki quismein
 - iii) fail ki quismein
 - iv) zameer ki quismein
- B)** 1) Tarjuman Ek fun- Zafarul Hasan
2) Interview, Press Conference - Kamal Ahmed Siddiqui

Unit : 3 **C.A. (Continous Assessment)** (Marks-35) period : 10

01. Assignment during semester II for 15 marks
02. Class test during semester II for each test 10 Marks

Text Books :

- 01) Chand Hamasar : Abdul Haque
02) Aadmi Nama : Mujtaba Hussain
03) Functional Urdu Edited by Dr.S.S.Ali. Yeshwant
,
College Nanded.
-
-

Paper Pattern

	(Marks)
Q.1] One long question from prescribes Khakanigari with internal option.	10
Q.2] One long question on Qawaid with internal option.	10
Q.3] One long question on Tarjuma & interview,press conference With internal option .	10
Q.4] M.C.Q. on whole syllabus.	10
	<hr/> 40

Swami Ramanand Teerth Marathwada University, Nanded

Distribution of Credits for B.A. First Year

Urdu (optional)

Under the Faculty of Arts Semester+CBCS Pattern Structure W.E.F. June 2016

Semester- II Paper -III
Title: (Dastan Aur Novel)

Credits :03
(ESE-40 Marks & C.A. 35)
(30 theory + 10 MCQ)

Marks :75

Unit : 1 **Dastan –Tareef ,Ajzaaye Tarkeebi,Agaz-o-Irtequa**
Bagh -o-Bahar period: 55

- i) Sair teesre Darvesh ki
- ii) Sair Chouthe Darvesh ki

Unit : II **Novel : Ek chadar Maili si** by :Rajindar
Singh Bedi

- 1.Novel ki tareef Ajzaaye Tarkeebi
- 2.Novel Ka Aaghaz -o- irteque
- 3.Rajindar Singh Bedi ke Novel Nigari
- 4.Hamasar Novel Nigar

Unit: III C.A (Continuous Assessment)

period: **10**

01) One Assignment during III semester for **15** marks

02) Two Class test during II semester for **10** marks each.

Text Books :

1 **Dastan - Bagh -o-Bahar** by **Meer Aman Dehlvi**

2 **Novel : Ek chadar Maili si** by **Rajindar Singh Bedi**

Reference Books :

- | | | |
|----|---------------------------------|-----------------------|
| 1. | Urdu ki Nasri Dastanain | Gopi Chand Narang |
| 2. | Urdu Zuban Aur Fan-e-Dastangoi | Valeemuddin Ahmed |
| 3. | Hamari Dastanain | Viqar Azeem |
| 4. | Novel va fan | Abul Kalam Qasmi |
| 5. | Urdu Novel ki Tareeqe-o-Tanqeed | Ali Abbas Hussain |
| 6. | Biswin Sadi main Urdu Novel | Yousuf Sarmast |
| 7. | Bedi Nama | Shams-ul Haque Usmani |
-
-

Paper Pattern

	(Marks)
Q.1] Reference to Context from Novel.	10
Q.2] One long question on Dastan with internal option.	10
Q.3] One long question on Novel with internal option.	10
Q.4] M.C.Q. on whole syllabus.	10
	<hr/> 40

Swami Ramanand Teerth Marathwada University, Nanded

Distribution of Credits for B.A. First Year

Urdu (optional)
Under the Faculty of Arts
Semester+CBCS Pattern Structure
W.E.F. June 2016

Semester -II Paper -IV
Title : (Masnavi Aur Nazm)

Credits 03

(Marks 75)

(ESE-40 Marks & C.A. 35)
(30 theory + 10 MCQ)

Unit : 1 Masnavi : Taareef , Mouzouat, period: 25
Aaghaz-o- Irtequa
Masnavi : “ Sah rul Bayan” by: Mir Hasan Dahelvi

Unit : II Nazm : Taareef , Mouzouat period: 20
Aaghaz-o-irtequa

Nazeer Akbarabadi : Muflisi
Altaf Hussain Hali : Taleem se be tawajjahi
ka Natija
Dr. Allama Iqbal : Shuway-e-Ummid
Josh malihabadi : Husn Aur Mazdoori
Maqdoom Mohiuddin : Charagar
Sikandar Ali Wajd : Taj Mahel

Unit : III C.A. (Continous Assessment) (Marks :35)
01 Assignment during II semester for **15** marks.
02 Class test during II semester
for **10** marks each

Text Books :

- 1) “ Sah rul Bayan” by: Mir Hasan Dahelvi
- 2) Nigarishat-e-Adab by Dr.S.S. Ali Dr.I.A.Khan ,
Eductional Book house, Aligarh

Reference Books :

- 1) Urdu Masnavi,Shumali hind mein. by prof. Gyan Chand
- 2) Urdu ki teen masnaviyan. by prof. Rasheed
- 3) Urdu Shairi mein Hayyat ke Tajrube. by Prof.unwan chisti

Paper Pattern

	(Marks)
Q.1] Reference to context from Nazm.	10
Q.2] One long Question on Masnavi.	10
Q.3] One long question on Nazm.	10
Q.4] M.C.Q. on whole syllabus.	10
	40



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड- ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

Established on 17th September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



ACADEMIC (1-BOARD OF STUDIES) SECTION

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कला विद्याशाखेतील पदवी स्तरावरील
हिन्दी विषयाचा सी.बी.सी.एस. पॅटर्नचा
अभ्यासक्रम शैक्षणिक वर्ष २०१६-१७
पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक १२ मे २०१६ रोजी संपन्न झालेल्या ३६व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.९/३६-२०१६ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील कला विद्याशाखेतील पदवी स्तरावरील खालील विषयाचा **C.B.C.S. (Choice Based Credit System) Pattern** चा अभ्यासक्रम शैक्षणिक वर्ष २०१६-१७ पासून लागू करण्यात येत आहे.

१. बी.ए./बी.कॉम./बी.एस्सी. हिन्दी (अनिवार्य, द्वितीय भाषा आणि ऐच्छिक) — प्रथम वर्ष (सत्र पहिले व दुसरे)

सदरील अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहे. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,
विष्णुपुरी, नांदेड — ४३१ ६०६.
जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदवी-सीबीसीएस अभ्यासक्रम/
२०१६-१७/८७१
दिनांक : १२.०८.२०१६.



स्वाक्षरित /—
संचालक
महाविद्यालय व विद्यापीठ विकास मंडळ

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. परीक्षा नियंत्रक यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.



स्वामी रामानंद तीर्थ मराठवाडा विश्वविद्यालय, नांदेड

"ज्ञानतीर्थ", विष्णुपुरी, नांदेड.

प्रथम वर्ष हिन्दी पाठ्यक्रम

नवीन सत्र पद्धति + C.B.C.S. पॅटर्न

(स्नातक स्तर)

दीर्घोत्तरी + बहु-विकल्पी + C.B.C.S. पॅटर्न

(Theory + MCQ+C.B.C.S. Pattern Syllabus)

जून 2016 से प्रारंभ

स्वामी रामानंदतीर्थ मराठवाडा विश्वविद्यालय, नांदेड

"ज्ञानतीर्थ" , विष्णुपुरी, नांदेड.



प्रथम वर्ष हिन्दी पाठ्यक्रम
हिन्दी द्वितीय भाषा (S.L.) (स्नातकस्तर)
बी.ए./ बी.कॉम/ बी.एस्सी.
पाठ्यक्रम सत्र पद्धति + C.B.C.S. पॅटर्न
w.e.f. जून 2016
नवीन C.B.C.S. सत्र पद्धति पाठ्यक्रम

Credits: 03 (Marks-75)
ESE-40 Marks and CA-35 Marks)
(30 Theory)
(10 MCQ)
पेपर क्र. I, II (S.L.) द्वितीय भाषा

स्वामी रामानंदतीर्थ मराठवाडा विश्वविद्यालय, नांदेड

प्रथम वर्ष बी.ए., बी.कॉम., बी.एस्सी., द्वितीय भाषा हिन्दी
CBCS पॅटर्न (सेमिस्टर) पद्धति (S.L.) पाठ्यक्रम,
प्रथम वर्ष SL की रूपरेखा
(पॅटर्न CBCS सेमिस्टर पद्धति, w.e.f. जून २०१६)

(साहित्य भारती)

सेमिस्टर	पेपर नं.	पेपर का नाम	लेक्चर प्रत्येक/ सप्ताह	कुल पिरेड	अन्तर्गत मूल्यांकन (C.A.)	सेमिस्टर के अंक (E.S.E.)	कुल अंक	क्रेडीट
१	१	साहित्य भारती	०४	५५	३५	४०	७५	०३
२	२	साहित्य भारती	०४	५५	३५	४०	७५	०३

नोट: उपर्युक्तविषय के अनुसार पेपर का नाम, पेपर क्रमांक I, II के अनुसार लेक्चर प्रत्येकसप्ताह में ०४, कुल पिरेड ५५, अन्तर्गत मूल्यांकन ३५ जिसमें दो (२) Test होंगे। प्रत्येक Test के लिए १० अंकोंहोंगे। १०+१०=२० और १५ अंकोंका Assignment रहेगाTheory ४० अंको के लिए कुल अंक ७५ होंगे। प्रत्येक पेपर के लिए क्रेडीट ०३ रहेंगे।

स्वामी रामानंदतीर्थ मराठवाडा विश्वविद्यालय, नांदेड

"ज्ञानतीर्थ" , विष्णुपुरी, नांदेड.



प्रथम वर्ष बी.ए. ऐच्छिक हिन्दी,
CBCS पॅटर्न (सेमिस्टर) पद्धति CBCS पाठ्यक्रम,

प्रथम वर्ष ऐच्छिक हिन्दी की रूपरेखा

w.e.f. जून २०१६

नवीन C.B.C.S. सत्र पद्धति पाठ्यक्रम

Credits: 03 (Marks-75)

ESE-40 Marks and CA-35 Marks)

(30 Theory)

(10 MCQ)

पेपर क्र. I, II, III & IV (opt.)

स्वामी रामानंदतीर्थ मराठवाडा विश्वविद्यालय, नांदेड

प्रथम वर्ष बी.ए. ऐच्छिक हिन्दी,
CBCS पॅटर्नसेमिस्टर पद्धति CBCS पाठ्यक्रम,

प्रथम वर्ष ऐच्छिक हिन्दी की रूपरेखा

w.e.f. जून २०१६

कथासाहित्य - I / III

नाटक तथा एकांकी - II / IV

सेमिस्टर	पेपर नं.	पेपर का नाम	लेक्चर प्रत्येक/ सप्ताह	कुल पिरेड	अन्तर्गत मूल्यांकन (C.A.)	सेमिस्टर के अंक (E.S.E.)	कुल अंक	क्रेडीट
I	I	कथा साहित्य	०४	५५	३५	४०	७५	०३
II	II	नाटक तथा एकांकी	०४	५५	३५	४०	७५	०३
II	III	कथा साहित्य	०४	५५	३५	४०	७५	०३
	IV	नाटक तथा एकांकी	०४	५५	३५	४०	७५	०३

नोट: उपर्युक्त विषय के अनुसार पेपर का नाम, पेपर क्रमांक I, II, III, IV के अनुसार लेक्चर प्रत्येकसप्ताह में ०४, कुल पिरेड ५५, अन्तर्गत मूल्यांकन ३५ जिसमें दो (२) Test होंगे। प्रत्येक Test के लिए १० अंकहोंगे १०+१०=२० और १५ अंकोंका Assignment रहेगा Theory ४० अंको के लिए कुल अंक ७५ होंगे प्रत्येक पेपर के लिए क्रेडीट ०३ रहेंगे।

स्वामी रामानंद तीर्थ मराठवाडा विश्वविद्यालय, नांदेड

बी.ए., बी.कॉम., बी.एस्सी. द्वितीय भाषा हिन्दी (S.L.)

नवीन पाठ्यक्रम सत्र पद्धति + C.B.C.S. पॅटर्न

प्रथम सत्र (Semester-I) प्रश्नपत्र क्र. I

(साहित्य भारती)

Credits : 03

ESE – 40 Marks and CA-35 Marks) अंक : 75

तासिका : 55

(30 Theory + 10 MCQ)

पाठ्यक्रम :

खण्ड अ) काव्य विभाग : (अंक 5+5 संदर्भ तथा टिप्पणी विकल्प में +10 दीर्घोत्तरी = 15 अंक)

तासिका : 20

- | | | |
|--------------------------|---|--------------------------------------|
| 1) नये जमाने की मुकरी | - | भारतेंदु हरिश्चंद्र |
| 2) नवयुवको के प्रति | - | मैथिलीशरण गुप्त |
| 3) जुही की कली | - | निराला |
| 4) जागरण | - | शिवमंगल सिंह 'सुमन' |
| 5) जो बीत गयी सो बात गयी | - | हरिवंशराय बच्चन |
| 6) यह दीप अकेला | - | सच्चिदानंद हीरानंद वात्सायन 'अज्ञेय' |

खण्ड ब) कहानी विभाग : (अंक 5+5 संदर्भ तथा टिप्पणी विकल्प में +10 दीर्घोत्तरी = 15 अंक)

तासिका : 20

- | | | |
|----------------------|---|--------------------------------------|
| 1) नशा | - | प्रेमचंद |
| 2) त्रिवेणी | - | जैनंद्रकुमार |
| 3) शरणदाता | - | सच्चिदानंद हीरानंद वात्सायन 'अज्ञेय' |
| 4) सच बोलने की भूल | - | यशपाल |
| 5) एष धर्म : सनातन : | - | भीष्म साहनी |
| 6) लड़की की शादी | - | अमरकांत |

खण्ड क) प्रयोजनमूलक हिन्दी

तासिका : 05

1) पारिभाषिक शब्दावली (100 शब्द)

(बैंक, बीमा, वाणिज्य, जनसंचार माध्यम, विज्ञान, कार्यालय, विधि, चिकित्सा, तथा संगणक से संबंधित)

*उपर्युक्त संपूर्ण पाठ्यक्रमपर 10 M.C.Q. प्रश्न पूछे जाएंगे = अंक 10

खण्ड ड) अंतर्गत मूल्यांकन (C.A.) (अंक 35)

तासिका : 10

निम्नलिखित घटकों पर आधारित होगा।

- 1) कक्षा में 10 - 10 अंकों के दो टेस्ट होंगे।
- 2) 15 अंकों का स्वाध्याय लेखन (Assignment) रहेगा।

स्वामी रामानंद तीर्थ मराठवाडा विश्वविद्यालय, नांदेड

बी.ए., बी.कॉम., बी.एस्सी. द्वितीय भाषा हिन्दी (S.L.)

नवीन पाठ्यक्रम सत्र पद्धति + C.B.C.S. पॅटर्न

द्वितीय सत्र (Semester-II) प्रश्नपत्र क्र. II

(साहित्य भारती)

Credits : 03

ESE – 40 Marks and CA-35 Marks) अंक : 75

तासिका : 55

(30 Theory + 10 MCQ)

पाठ्यक्रम :

खण्ड अ) काव्य विभाग : (अंक 5+5 संदर्भ तथा टिप्पणी विकल्प में +10 दीर्घोत्तरी = 15 अंक)

तासिका : 20

- | | | |
|----------------------------|---|-------------------|
| 1) धिन तो नहीं आती हैं ? | - | नागार्जुन |
| 2) लोग टूट जाते हैं (गज़ल) | - | बशीर बद्र |
| 3) श्रेष्ठ | - | ओमप्रकाश वाल्मिकि |
| 4) जानकी जान गई है | - | सुशीला टाकभौरे |
| 5) पासे सभी पलट गये | - | कवि प्रदीप |
| 6) क्या तुम जानते हो ? | - | निर्मला पुतुल |

खण्ड ब) कहानी विभाग : (अंक 5+5 संदर्भ तथा टिप्पणी विकल्प में +10 दीर्घोत्तरी = 15 अंक)

तासिका : 20

- | | | |
|-------------------------------|---|-------------------|
| 1) रसप्रिया | - | फणीश्वरनाथ रेणु |
| 2) सुमेर | - | राहुल सांकृत्यायन |
| 3) स्त्री सुबोधिनी | - | मन्नू भंडारी |
| 4) ललमनियाँ | - | मैत्रेयी पुष्पा |
| 5) नेलकटर | - | उदय प्रकाश |
| 6) ऐ गंगा तुम बहती हो क्यूँ ? | - | विवेक मिश्र |

खण्ड क) प्रयोजनमूलक हिन्दी

तासिका : 05

अ) संवाद लेखन : सैद्धांतिक तथा व्यावहारिक पक्ष

ब) विज्ञापन लेखन : सैद्धांतिक तथा व्यावहारिक पक्ष

*उपर्युक्त संपूर्ण पाठ्यक्रमपर 10 M.C.Q. प्रश्न पूछे जाएंगे = अंक 10

खण्ड ड) अंतर्गत मूल्यांकन (C.A.) (अंक 35)

तासिका : 10

निम्नलिखित घटकों पर आधारित होगा।

1) कक्षा में 10 - 10 अंकों के दो टेस्ट होंगे।

2) 15 अंकों का स्वाध्याय लेखन (Assignment) रहेगा।

स्वामी रामानंद तीर्थ मराठवाडा विश्वविद्यालय, नांदेड

बी.ए. प्रथम वर्ष ऐच्छिक हिंदी

नूतन पाठ्यक्रम सत्र पद्धति + C.B.C.S. पॅटर्न

प्रथम सत्र (Semester-I) प्रश्नपत्र क्र. I

(कथा साहित्य)

Credits : 03

ESE – 40 Marks and CA-35 Marks) अंक : 75

तासिका : 55

(30 Theory + 10 MCQ)

पाठ्यक्रम

खण्ड अ) उपन्यास विधा - (अंक 05)

तासिका : 10

सैद्धांतिक विवेचन परिभाषा, विकास, तत्त्व

खण्ड ब) उपन्यास - (अंक 05 संदर्भ विकल्प के साथ + 10 दीर्घोत्तरी)

तासिका : 20

मुक्तिपर्व : मोहनदास नैमिशराय (अनुराग प्रकाशन, दरियागंज, नई दिल्ली)

खण्ड क) कहानियाँ - (अंक 05 संदर्भ विकल्प के साथ + 10 दीर्घोत्तरी)

तासिका : 15

- | | | |
|----------------------|---|---------------|
| 1) मंत्र 1 | - | प्रेमचंद |
| 2) आकाशदिप | - | जयशंकर प्रसाद |
| 3) मक्रिल | - | यशपाल |
| 4) ग्रैग्रीन | - | अज्ञेय |
| 5) आखिरी सामान | - | मोहन राकेश |
| 6) ऊपर उठता हुआ मकान | - | कमलेश्वर |

*उपर्युक्त संपूर्ण पाठ्यक्रमपर 10 M.C.Q. प्रश्न पूछे जाएंगे = अंक 10

खण्ड ड) अंतर्गत मूल्यांकन (C.A.) (अंक 35)

तासिका : 10

निम्नलिखित घटकों पर आधारित होगा।

- 1) कक्षा में 10 - 10 अंकों के दो टेस्ट होंगे।
- 2) 15 अंकों का स्वाध्याय लेखन (Assignment) रहेगा।

स्वामी रामानंद तीर्थ मराठवाडा विश्वविद्यालय, नांदेड

बी.ए. प्रथम वर्ष ऐच्छिक हिंदी

नूतन पाठ्यक्रम सत्र पद्धति + C.B.C.S. पॅटर्न

प्रथम सत्र (Semester-I) प्रश्नपत्र क्र. II

(नाटक तथा एकांकी)

Credits : 03

ESE – 40 Marks and CA-35 Marks) अंक : 75

तासिका : 55

(30 Theory + 10 MCQ)

पाठ्यक्रम :

खण्ड अ) एकांकी विधा : (अंक 05)

तासिका : 10

परिचय, तत्त्व तथा इतिहास

खण्ड ब) नाटक : (अंक 05 संदर्भ विकल्प के साथ + 10 दीर्घोत्तरी)

तासिका : 20

लढ़ाई - सर्वेश्वर दयाल सक्सेना (वाणी प्रकाशन, दरियागंज, नई दिल्ली)

खण्ड क) एकांकी : (अंक 05 संदर्भ विकल्प के साथ + 10 दीर्घोत्तरी)

तासिका : 15

- 1) परिचय - लक्ष्मीनारायण लाल
- 2) कँवारी धरती - मोहन राकेश
- 3) जान से प्यारे - ममता कालीया
- 4) समरथ को नहीं दोष गुसाई - सफदर हाशमी

*उपर्युक्त संपूर्ण पाठ्यक्रमपर 10 M.C.Q. प्रश्न पूछे जाएंगे = अंक 10

खण्ड ड) अंतर्गत मूल्यांकन (C.A.) (अंक 35)

तासिका : 10

निम्नलिखित घटकों पर आधारित होगा।

- 1) कक्षा में 10 - 10 अंकों के दो टेस्ट होंगे।
- 2) 15 अंकों का स्वाध्याय लेखन (Assignment) रहेगा।

स्वामी रामानंद तीर्थ मराठवाडा विश्वविद्यालय, नांदेड

बी.ए. प्रथम वर्ष ऐच्छिक हिंदी

नूतन पाठ्यक्रम सत्र पद्धति + C.B.C.S. पॅटर्न
द्वितीय सत्र (Semester-II) प्रश्नपत्र क्र. III

(कथा साहित्य)

Credits : 03

ESE – 40 Marks and CA-35 Marks) अंक : 75
(30 Theory + 10 MCQ)

तासिका : 55

पाठ्यक्रम :

खण्ड अ) कहानी विधा - (अंक 05)

तासिका : 10

सैद्धांतिक विवेचन परिभाषा, विकास, तत्त्व

खण्ड ब) उपन्यास - (अंक 05 संदर्भ विकल्प के साथ + 10 दीर्घोत्तरी)

तासिका : 20

लौटे हुए मुसाफिर : कमलेश्वर (लोकभारती प्रकाशन, इलाहाबाद / नई दिल्ली)

खण्ड क) कहानियाँ : (अंक 05 संदर्भ विकल्प के साथ + 10 दीर्घोत्तरी)

तासिका : 15

- | | | |
|--------------------------|---|-------------------|
| 1) मुखौटा | - | ममता कालिया |
| 2) टीस | - | संजीव |
| 3) मुंबई कांड | - | ओमप्रकाश वाल्मिकि |
| 4) सुरंग | - | दयानंद बटौही |
| 5) नारी तुम केवल सबला हो | - | डॉ. नीहारिका |
| 6) धोखा | - | रजतरानी मीनू |

*उपर्युक्त संपूर्ण पाठ्यक्रमपर 10 M.C.Q. प्रश्न पूछे जाएंगे = अंक 10

खण्ड ड) अंतर्गत मूल्यांकन (C.A.) (अंक 35)

तासिका : 10

निम्नलिखित घटकों पर आधारित होगा।

- 1) कक्षा में 10 - 10 अंकों के दो टेस्ट होंगे।
- 2) 15 अंकों का स्वाध्याय लेखन (Assignment) रहेगा।

स्वामी रामानंद तीर्थ मराठवाडा विश्वविद्यालय, नांदेड

बी.ए. प्रथम वर्ष ऐच्छिक हिंदी

नूतन पाठ्यक्रम सत्र पद्धति + C.B.C.S. पॅटर्न
द्वितीय सत्र (Semester-II) प्रश्नपत्र क्र. IV

(नाटक तथा एकांकी)

Credits : 03

ESE – 40 Marks and CA-35 Marks) अंक : 75
(30 Theory + 10 MCQ)

तासिका : 55

पाठ्यक्रम :

खण्ड अ) नाटक विधा : (अंक 05)

तासिका : 10

परिचय, तत्त्व तथा इतिहास

खण्ड ब) नाटक : (अंक 05 संदर्भ विकल्प के साथ + 10 दीर्घोत्तरी)

तासिका : 20

सुनो शेफाली - कुसूम कुमार (किताब घर प्रकाशन, दरियागंज, नई दिल्ली)

खण्ड क) एकांकी : (अंक 05 संदर्भ विकल्प के साथ + 10 दीर्घोत्तरी)

तासिका : 15

- 1) गुनाहों की सजा - कर्मशील भारती
- 2) समर्पित जीवन - सुशिला टाकभौरे
- 3) दहाड उठा था सिंह - अनिता भारती
- 4) वारिस - अशोक कुमार

*उपर्युक्त संपूर्ण पाठ्यक्रमपर 10 M.C.Q. प्रश्न पूछे जाएंगे = अंक 10

खण्ड ड) अंतर्गत मूल्यांकन (C.A.) (अंक 35)

तासिका : 10

निम्नलिखित घटकों पर आधारित होगा।

- 1) कक्षा में 10 - 10 अंकों के दो टेस्ट होंगे।
- 2) 15 अंकों का स्वाध्याय लेखन (Assignment) रहेगा।

* * * * *



स्वामी रामानंद तीर्थ मराठवाडा विश्वविद्यालय, नांदेड
"ज्ञानतीर्थ" विष्णुपरी, नांदेड

प्रथम वर्ष हिंदी पाठ्यक्रम C.B.C.S. पॅटर्न (सत्र पध्दति)
w.e.f. जून २०१६
B.A. - I Year
(स्नातक स्तर)

नवीन C.B.C.S. सत्र पध्दति पाठ्यक्रम पॅटर्न
प्रथम वर्ष हिन्दी द्वितीय भाषा S.L.&
प्रथम वर्ष ऐच्छिक I, II, III, IV
पाठ्यक्रम की रूपरेखा
प्रश्नपत्र का प्रारूप
सेमिस्टर पध्दति जून २०१६

30 Theory + 10 MCQ	= 40
2 Test 10+10	= 20
<u>1 Assignment</u>	<u>= 15</u>
Total	= 75

जून २०१६ से प्रारंभ

स्वामी रामानंद तीर्थ मराठवाडा विश्वविद्यालय, नांदेड

प्रथम वर्ष हिन्दी पाठ्यक्रम

हिन्दी द्वितीय भाषा (S.L.) (स्नातक स्तर)

बी.ए./बी.कॉम/बी.एस्सी.

पाठ्यक्रम सत्र पध्दती + C.B.C.S. पॅटर्न

w.e.f. जून २०१६

नवीन C.B.C.S. सत्र पध्दति पाठ्यक्रम

प्रथम वर्ष S.L. की रूपरेखा

(सेमिस्टर पध्दति, जून २०१६)

साहित्य भारती

सत्र-I प्रश्न पत्र-I

प्रश्नपत्र का प्रारूप २०१६-१७

Credits: 03

ESE-40 Marks and CA-35 Marks)

(30 Theory)

(10 MCQ)

(Marks-75)

Periods: 55

-
- प्रश्न १. ससंदर्भ व्याख्या कीजिए। अंक - ०५
विकल्प के साथ संदर्भ पूछा जाएगा, जिसमें एक संदर्भ कविता पर होगा, विकल्प में कहानी पर संदर्भ होगा, दो में से एक लिखना अनिवार्य है।
- प्रश्न २. कविता पर दीर्घोत्तरी प्रश्न विकल्प साथ १०
- प्रश्न ३. कहानी पर दीर्घोत्तरी प्रश्न विकल्प के साथ १०
- प्रश्न ४. टिप्पणी लिखिए : ०५
कविता तथा कहानी पर दो टिप्पणियाँ पूछी जाएँगी, दो में से एक लिखना अनिवार्य होगा।
- प्रश्न ५. संपूर्ण पाठ्यक्रम पर १० बहुपर्यायी (MCQ) प्रश्न पुछे जाएँगे, सभी प्रश्न अनिवार्य होंगे। १०

नोट : विश्वविद्यालय द्वारा पाठ्यक्रम में संपादीत पुस्तक तथा प्रयोजनमूलक हिंदी (पारिभाषिक शब्दावली १०० शब्द) पर बहुपर्यायी प्रश्न होंगे।

अंतर्गत मूल्यांकन-

३५ अंक का होगा जिसमें २ टेस्ट होंगे। प्रत्येक टेस्ट के लिए १० अंक होंगे

१०+१० = २० और १५ अंकों का Assignment रहेगा :

३५

स्वामी रामानंद तीर्थ मराठवाडा विश्वविद्यालय, नांदेड

प्रथम वर्ष हिन्दी पाठ्यक्रम

हिन्दी द्वितीय भाषा (S.L.) (स्नातक स्तर)

बी.ए./बी.कॉम/बी.एससी.

पाठ्यक्रम सत्र पध्दती + C.B.C.S. पॅटर्न

w.e.f. जून २०१६

नवीन C.B.C.S. सत्र पध्दति पाठ्यक्रम

प्रथम वर्ष S.L. की रूपरेखा

(सेमिस्टर पध्दति, जून २०१६)

साहित्य भारती

सत्र-II प्रश्न पत्र-II

प्रश्नपत्र का प्रारूप २०१६-१७

Credits: 03

ESE-40 Marks and CA-35 Marks)

(30 Theory)+

(10 MCQ)

(Marks-75)

Periods: 55

-
- प्रश्न १. ससंदर्भ व्याख्या कीजिए। अंक - ०५
विकल्प के साथ संदर्भ पूछा जाएगा, जिसमें एक संदर्भ कविता पर होगा, विकल्प में कहानी पर संदर्भ होगा, दो में से एक लिखना अनिवार्य है।
- प्रश्न २. कविता पर दीर्घोत्तरी प्रश्न विकल्प साथ १०
- प्रश्न ३. कहानी पर दीर्घोत्तरी प्रश्न विकल्प के साथ १०
- प्रश्न ४. टिप्पणी लिखिए : ०५
कविता तथा कहानी पर दो टिप्पणियाँ पूछी जाएँगी, दो में से एक लिखना अनिवार्य होगा।
- प्रश्न ५. संपूर्ण पाठ्यक्रम पर १० बहुपर्यायी (MCQ) प्रश्न पुछे जाएँगे, सभी प्रश्न अनिवार्य होंगे। १०

नोट : विश्वविद्यालय द्वारा पाठ्यक्रम में संपादीत पुस्तक तथा प्रयोजनमूलक हिंदी पर बहुपर्यायी प्रश्न होंगे।

अंतर्गत मूल्यांकन-

३५ अंक का होगा जिसमें २ टेस्ट होंगे। प्रत्येक टेस्ट के लिए १० अंक होंगे १०+१० = २० और १५ अंकों का Assignment रहेगा : ३५

स्वामी रामानंद तीर्थ मराठवाडा विश्वविद्यालय, नांदेड

प्रथम वर्ष हिन्दी पाठ्यक्रम

हिन्दी ऐच्छिक (स्नातक स्तर) बी.ए. प्रथम वर्ष

पाठ्यक्रम सत्र पध्दती + C.B.C.S. पॅटर्न

w.e.f. जून २०१६

नवीन C.B.C.S. सत्र पध्दति पाठ्यक्रम

प्रथम वर्ष ऐच्छिक विषय की रूपरेखा

(सेमिस्टर पध्दति, जून २०१६)

कथा साहित्य

सत्र-I प्रश्न पत्र-I

प्रश्नपत्र का प्रारूप २०१६-१७

Credits: 03

ESE-40 Marks and CA-35 Marks)

(30 Theory)+

(10 MCQ)

(Marks-75)

Periods: 55

प्रश्न १.	ससंदर्भ व्याख्या कीजिए। विकल्प के साथ संदर्भ पूछा जाएगा, जिसमें एक संदर्भ उपन्यास पर होगा, विकल्प में कहानी पर संदर्भ होगा, दो में से एक लिखना अनिवार्य है।	अंक - ०५
प्रश्न २.	उपन्यास पर दीर्घोत्तरी प्रश्न विकल्प साथ	१०
प्रश्न ३.	कहानी पर दीर्घोत्तरी प्रश्न विकल्प के साथ	१०
प्रश्न ४.	टिप्पणी लिखिए : १) उपन्यास विधी सैध्दांतिक विवेचन-परिभाषा, विकास विकल्प उपन्यास के तत्वों का विवेचन कीजिए	०५
प्रश्न ५.	संपूर्ण पाठ्यक्रम पर १० बहुपर्यायी (MCQ) प्रश्न पुछे जाएँगे, सभी प्रश्न अनिवार्य होंगे।	१०

अंतर्गत मूल्यांकन -

३५ अंक का होगा जिसमें २ टेस्ट होंगे प्रत्येक टेस्ट के लिए १० अंक होंगे १०+१० =२०
और १५ अंकों का Assignment रहेगा : ३५

स्वामी रामानंद तीर्थ मराठवाडा विश्वविद्यालय, नांदेड

प्रथम वर्ष हिन्दी पाठ्यक्रम

हिन्दी ऐच्छिक (स्नातक स्तर) बी.ए. प्रथम वर्ष

पाठ्यक्रम सत्र पध्दती + C.B.C.S. पॅटर्न

w.e.f. जून २०१६

नवीन C.B.C.S. सत्र पध्दति पाठ्यक्रम

प्रथम वर्ष ऐच्छिक विषय की रूपरेखा

(सेमिस्टर पध्दति, जून २०१६)

कथानंद / कथा साहित्य

सत्र-II प्रश्न पत्र-III

प्रश्नपत्र का प्रारूप २०१६-१७

Credits: 03

ESE-40 Marks and CA-35 Marks)

(30 Theory)+

(10 MCQ)

(Marks-75)

Periods: 55

प्रश्न १.	ससंदर्भ व्याख्या कीजिए। विकल्प के साथ संदर्भ पूछा जाएगा, जिसमें एक संदर्भ उपन्यास पर होगा, विकल्प में कहानी पर संदर्भ होगा, दो में से एक लिखना अनिवार्य है।	अंक - ०५
प्रश्न २.	उपन्यास पर दीर्घोत्तरी प्रश्न विकल्प साथ	१०
प्रश्न ३.	कहानी पर दीर्घोत्तरी प्रश्न विकल्प के साथ	१०
प्रश्न ४.	टिप्पणी लिखिए : १) कहानी विधी सैध्दांतिक विवेचन-परिभाषा, विकास विकल्प के साथ पुछे जाएँगे	०५
प्रश्न ५.	संपूर्ण पाठ्यक्रम पर १० बहुपर्यायी (MCQ) प्रश्न पुछे जाएँगे, सभी प्रश्न अनिवार्य होंगे।	१०

अंतर्गत मूल्यांकन -

३५ अंक का होगा जिसमें २ टेस्ट होंगे प्रत्येक टेस्ट के लिए १० अंक होंगे १०+१० =२०

और १५ अंकों का Assignment रहेगा :

३५

स्वामी रामानंद तीर्थ मराठवाडा विश्वविद्यालय, नांदेड

प्रथम वर्ष हिन्दी पाठ्यक्रम

हिन्दी ऐच्छिक (स्नातक स्तर) बी.ए. प्रथम वर्ष

पाठ्यक्रम सत्र पध्दती + C.B.C.S. पॅटर्न

w.e.f. जून २०१६

नवीन C.B.C.S. सत्र पध्दति पाठ्यक्रम

प्रथम वर्ष ऐच्छिक विषय की रूपरेखा

(सेमिस्टर पध्दति, जून २०१६)

नाटक तथा एकांकी

सत्र-I प्रश्न पत्र-II

प्रश्नपत्र का प्रारूप २०१६-१७

Credits: 03

ESE-40 Marks and CA-35 Marks)

(30 Theory)+

(10 MCQ)

(Marks-75)

Periods: 55

-
- प्रश्न १. **ससंदर्भ व्याख्या कीजिए।** अंक - ०५
विकल्प के साथ संदर्भ पूछा जाएगा, जिसमें एक संदर्भ नाटक पर होगा, विकल्प में एकांकी पर संदर्भ होगा, दो में से एक लिखना अनिवार्य है।
- प्रश्न २. **नाटक पर दीर्घोत्तरी प्रश्न विकल्प साथ** १०
- प्रश्न ३. **एकांकी पर दीर्घोत्तरी प्रश्न विकल्प के साथ** १०
- प्रश्न ४. **टिप्पणी लिखिए :** ०५
एकांकी विधा, परिचय तत्व तथा इतिहास पर दो टिप्पनियाँ पूछी जाएँगी, दो में से एक लिखना अनिवार्य होगा।
- प्रश्न ५. **संपूर्ण पाठ्यक्रम पर १० बहुपर्यायी (MCQ) प्रश्न पुछे जाएँगे, सभी प्रश्न अनिवार्य होंगे।** १०

नोट : विश्वविद्यालय द्वारा पाठ्यक्रम में संपादीत पुस्तक नाटक तथा एकांकी संकलन पाठ्यपुस्तक पर बहुपर्यायी प्रश्न पुछे जाएँगे।

अंतर्गत मूल्यांकन -

३५ अंक का होगा जिसमें २ टेस्ट होंगे प्रत्येक टेस्ट के लिए १० अंक होंगे १०+१० =२०
और १५ अंकों का **Assignment** रहेगा : ३५

स्वामी रामानंद तीर्थ मराठवाडा विश्वविद्यालय, नांदेड

प्रथम वर्ष हिन्दी पाठ्यक्रम

हिन्दी ऐच्छिक (स्नातक स्तर) बी.ए. प्रथम वर्ष

पाठ्यक्रम सत्र पध्दती + C.B.C.S. पॅटर्न

w.e.f. जून २०१६

नवीन C.B.C.S. सत्र पध्दति पाठ्यक्रम

प्रथम वर्ष ऐच्छिक विषय की रूपरेखा

(सेमिस्टर पध्दति, जून २०१६)

नाटक तथा एकांकी

सत्र-II प्रश्न पत्र-IV

प्रश्नपत्र का प्रारूप २०१६-१७

Credits: 03

ESE-40 Marks and CA-35 Marks)

(30 Theory)+

(10 MCQ)

(Marks-75)

Periods: 55

-
- प्रश्न १. **ससंदर्भ व्याख्या कीजिए।** अंक - ०५
विकल्प के साथ संदर्भ पूछा जाएगा, जिसमें एक संदर्भ नाटक पर होगा, विकल्प में एकांकी पर संदर्भ होगा, दो में से एक लिखना अनिवार्य है।
- प्रश्न २. **नाटक पर दीर्घोत्तरी प्रश्न विकल्प साथ** १०
- प्रश्न ३. **एकांकी पर दीर्घोत्तरी प्रश्न विकल्प के साथ** १०
- प्रश्न ४. **टिप्पणी लिखिए :** ०५
नाटक विधा, परिचय तत्व तथा इतिहास पर दो टिप्पणियाँ पूछी जाएँगी, दो में से एक लिखना अनिवार्य होगा।
- प्रश्न ५. **संपूर्ण पाठ्यक्रम पर १० बहुपर्यायी (MCQ) प्रश्न पुछे जाएँगे,** १०
सभी प्रश्न अनिवार्य होंगे।

नोट : विश्वविद्यालय द्वारा पाठ्यक्रम में संपादीत पुस्तक नाटक तथा एकांकी संकलन पाठ्यपुस्तक पर बहुपर्यायी प्रश्न पुछे जाएँगे।

अंतर्गत मूल्यांकन -

३५ अंक का होगा जिसमें २ टेस्ट होंगे प्रत्येक टेस्ट के लिए १० अंक होंगे १०+१० =२०

और १५ अंकों का **Assignment** रहेगा :

३५

* * * * *



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड— ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

Established on 17th September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



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कला विद्याशाखेतील पदवी स्तरावरील
कन्नड विषयाचा सी.बी.सी.एस. पॅटर्नचा
अभ्यासक्रम शैक्षणिक वर्ष २०१६-१७
पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक १२ मे २०१६ रोजी संपन्न झालेल्या ३६व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.९/३६-२०१६ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील कला विद्याशाखेतील पदवी स्तरावरील खालील विषयाचा **C.B.C.S. (Choice Based Credit System) Pattern** चा अभ्यासक्रम शैक्षणिक वर्ष २०१६-१७ पासून लागू करण्यात येत आहे.

१. बी.ए./बी.कॉम./बी.एस्सी. कन्नड (द्वितीय भाषा आणि ऐच्छिक) — प्रथम वर्ष (सत्र पहिले व दुसरे)

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदवी-सीबीसीएस अभ्यासक्रम/
२०१६-१७/१४३९

दिनांक : ०५.१०.२०१६.



स्वाक्षरित /—

संचालक

महाविद्यालय व विद्यापीठ विकास मंडळ

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. परीक्षा नियंत्रक यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

Swami Ramanand Teerth Marathwada University, Nanded

Choice Based Credit System (CBCS) Course Structure (New scheme)

Faculty of Arts/Science/Commerce

B.A./B.Sc./B.Com. First Year Syllabus

Semester Pattern effective from June 2016

Subject: Kannada SL

Sr. No.	Semester		Paper No.	Name of Paper	Lectures/ week	Total No. of Lectures	CA	ESE	Total Marks	Credits
1	Sem. I	ECC Kannada SL- I	Theory – I	Drama	3	45	00	50	50	2
			Tutorial		1	15	25	00	25	1
			Total		4	60	25	50	75	3
2	Sem. II	ECC Kannada SL- II	Theory – II	Novel	3	45	00	50	50	2
			Tutorial		1	15	25	00	25	1
			Total		4	60	25	50	75	3
			Total		8	120	50	100	150	6

Swami Ramanand Teerth Marathwada University, Nanded

Choice Based Credit System (CBCS) Course Structure (New scheme)

Faculty of Arts

B. A. First Year Syllabus

Semester Pattern effective from June 2016

Subject: Kannada (Optional)

Sr. No.	Semester		Paper No.	Name of Paper	Lectures/ week	Total No. of Lectures	CA	ESE	Total Marks	Credits
1	Sem. I	ECCKNN-I Section A	Theory	History of Old Kannada Literature	3	45	00	50	50	2
			Tutorial		1	15	25	00	25	1
		ECCKNN-I Section B	Theory	Modern Kannada Literature Poetry	3	45	00	50	50	2
			Tutorial		1	15	25	00	25	1
			Total		8	120	50	100	150	6
2	Sem. II	ECCKNN-II Section A	Theory	Kannada Folk Literature	3	45	00	50	50	2
			Tutorial		1	15	25	00	25	1
		ECCKNN -II Section B	Theory	Modern Kannada Literature Short Story	3	45	00	50	50	2
			Tutorial		1	15	25	00	25	1
			Total		8	120	50	100	150	6
			Total		16	240	100	200	300	12

S. R. T. M. University, Nanded – Kannada Syllabus (UG) w.e.f. June 2016

CBCS Pattern

Kannada S.L.

B.A., B.Com. & B.Sc. First Year

Semester – I Paper No. – I

Title: Modern Kannada Literature: Drama

Credits: 03

(ESE: 40 Marks CA: 35 Marks)

(30 Theory + 10 MCQ)

Marks: 75

Periods: 55

Objectives of the Study:

- There are one text book in this paper. Detailed study of the text in necessary.
- Modern Kannada Literature: Drama – By Dr. GirishKarnad
- Meanings of the Drama ugamavikas, Mahatwa, Laxan& types.

Unit I – Background to Drama Yayaati – By Dr. GirishKarnad text book. [Marks: 10]

Periods: 10

Unit II – YayaatiNatakGirisKarnadsutradav, Yayaati, Devayani, Sharmiste, [Marks: 30]

Swarnalate, puru, Chitrlekhe, Sukracharya

Periods: 35

Unit III – Continuous Assessment (CA) [Marks: 35]

Periods: 10

Note:Continuous Assessment may be done on the basis of following criteria.

- 1) Two class tests during the semester for 10 marks each. **10 x 2 = 20 marks**
- 2) One assignment during each semester for 15 marks.**15 marks**

S. R. T. M. University, Nanded – Kannada Syllabus (UG) w.e.f. June 2016

CBCS Pattern

Kannada Opt.

B.A. First Year

Semester – I Paper No. – I

Title: History of old Kannada Literature

Credits: 03

(ESE: 40 Marks CA: 35 Marks)

(30 Theory + 10 MCQ)

Marks: 75

Periods: 55

Objectives of the Study:

- There are one text book in this paper. Detailed study of the text in necessary.
- History of old Kannada Literature.
- Details study of old Kannada literature any other reference books.

Unit I – Background to old Kannada literature.

Kannada sahyacharitre by R.S. Mugli. [Marks: 10]

Periods: 10

Unit II – Prachin Kannada sahyacharitre, origin ugama, vikas, Mahatva, [Marks: 30]

Kavirayamarga, vaddarodhane, pumpapurva&pumpaponna, Ranna,

Durgashimha, Chaundaraya, Nayashena, Dantidurga, Nagachandra

Periods: 35

Unit III – Continuous Assessment (CA) [Marks: 35]

Periods: 10

Note:Continuous Assessment may be done on the basis of following criteria.

- 1) Two class tests during the semester for 10 marks each. **10 x 2 = 20 marks**
- 2) One assignment during each semester for 15 marks. **15 marks**

S. R. T. M. University, Nanded – Kannada Syllabus (UG) w.e.f. June 2016

CBCS Pattern

Kannada Opt.

B.A. First Year

Semester – I Paper No. – II

Title: Modern Kannada Literature: Poetry

Credits: 03

(ESE: 40 Marks CA: 35 Marks)

(30 Theory + 10 MCQ)

Marks: 75

Periods: 55

Objectives of the Study:

- There are one text book in this paper. Detailed study of the text in necessary.
- The seven poet's poem's only
- Modern Kannada literature poetry. Edited by Dr. SomnathYalwar
- Modern Kannada literature ugamavikasmahatwa

Unit I – Background to Modern Kannada literature: Poetry

By Dr. SomnathYalwar Edited books. [Marks: 10]

Periods: 10

Unit II – Modern poets – D.R. Bendre, Gopal Krishna Adiga, G.S. Shivarudrappa, Savita

Nagabhushan, Dr. ArvindMalgatti, JaishreeSabaradKuvmpu [Marks: 30] Periods: 35

Unit III – Continuous Assessment (CA) [Marks: 35]

Periods: 10

Note:Continuous Assessment may be done on the basis of following criteria.

- 1) Two class tests during the semester for 10 marks each. **10 x 2 = 20 marks**
- 2) One assignment during each semester for 15 marks. **15 marks**

S. R. T. M. University, Nanded – Kannada Syllabus (UG) w.e.f. June 2016

CBCS Pattern

Kannada S.L.

B.A., B.Com. & B.Sc. First Year

Semester – II Paper No. – II

Title: Modern Kannada Literature: Novel

Credits: 03

(ESE: 40 Marks CA: 35 Marks)

(30 Theory + 10 MCQ)

Marks: 75

Periods: 55

Objectives of the Study:

- There are one text book in this paper. Detailed study of the text in necessary.
- Modern Kannada Literature: Novel – By Dr. ShivramKarant
- Meanings of the Novel,ugamavikas, Mahatwa, Laxan& types.

Unit I – Background to MukajjiyyaKanasugalu – By Dr. ShivramKarant text book. [Marks: 10]

Periods: 10

Unit II – Mukajjiyyakanasugelu, Helidabagesaransha, ShivramKarant old story, [Marks: 30]

Ramanna, Nagi, RaghevandraMattuNakatakadaSaransha

Periods: 35

Unit III – Continuous Assessment (CA) [Marks: 35]

Periods: 10

Note:Continuous Assessment may be done on the basis of following criteria.

- 1) Two class tests during the semester for 10 marks each. **10 x 2 = 20 marks**
- 2) One assignment during each semester for 15 marks. **15 marks**

S. R. T. M. University, Nanded – Kannada Syllabus (UG) w.e.f. June 2016
CBCS Pattern
Kannada Opt.
B.A. First Year
Semester – II Paper No. – III
Title: Kannada Folk Literature

Credits: 03

(ESE: 40 Marks CA: 35 Marks)

(30 Theory + 10 MCQ)

Marks: 75

Periods: 55

Objectives of the Study:

- There are one text book in this paper. Detailed study of the text in necessary.
- Kannada folk literature study.
- Meaning of folk origin and development nature and types.
- Folk and folklore literature.

Unit I – Background to folk and folkore literature study of Janapadasahityaswarup.

By Dr. H. M. Nayak. [Marks: 10]

Periods: 10

Unit II – Ugama, vikas, mahatwa, swarupa, laxans, porakar, purusharhadu, [Marks: 30]

Striyarhadu, makkadhadu, kategalunatakogatugade

Periods: 35

Unit III – Continuous Assessment (CA) [Marks: 35]

Periods: 10

Note:Continuous Assessment may be done on the basis of following criteria.

- 1) Two class tests during the semester for 10 marks each. **10 x 2 = 20 marks**
- 2) One assignment during each semester for 15 marks. **15 marks**

S. R. T. M. University, Nanded – Kannada Syllabus (UG) w.e.f. June 2016

CBCS Pattern

Kannada Opt.

B.A. First Year

Semester – II Paper No. – IV

Title: Modern Kannada Literature: Short Story

Credits: 03

(ESE: 40 Marks CA: 35 Marks)

(30 Theory + 10 MCQ)

Marks: 75

Periods: 55

Objectives of the Study:

- There are one text book in this paper. Detailed study of the text in necessary.
- Modern short story in Kannada detailed study.
- Short story meanings borthe, vikas, mahatwa, laxan&Prakargalu

Unit I – Background to Katha sangama. Edited by Dr. K.S. Nayak

Prasarang Gulbarga University, Gulbarga.text book. [Marks: 10]

Periods: 10

Unit II – Shantaras – Godan, Dr. Anantmurti – tai, P. Lankesh – mrugamattusundari,

B. Ramanna – Gandhi, MahadevDevonur – Amas,

K. Veerbhadrappa – Devarhena, C. Valikar – Budhannadinalli,

Krishna Nayak – Lachhidevi, ShrikantPatil – SalaBhanumustak story [Marks: 30]

Periods: 35

Unit III – Continuous Assessment (CA) [Marks: 35]

Periods: 10

Note:Continuous Assessment may be done on the basis of following criteria.

- 1) Two class tests during the semester for 10 marks each. **10 x 2 = 20 marks**
- 2) One assignment during each semester for 15 marks. **15 marks**

S. R. T. M. University, Nanded – Kannada Syllabus (UG) w.e.f. June 2016
CBCS Pattern
Kannada S.L. &Opt.
B.A., B.Com. & B.Sc. First Year (SL)
B.A. First Year (Opt.)
Semester – I &II (Each Paper)

Distribution of Marks

30 Theory + 10 MCQ =	40
2 test 10 + 10 =	20
Assignment =	15
Total =	75

Model Question Paper:

Q. I Reference to context. (one out of two)	05
Q. II Essay type questions (Internal choice)	10
Q. III Essay type questions (Internal choice)	10
Q. IV Short Nots. (one out of two)	05
Q. V Objective types of questions (MCQ)	10
	<u>Total = 40</u>
Two test 10 + 10	20
1 assignment	15
	<u>Grant Total = 75</u>



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड— ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

Established on 17th September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



ACADEMIC (1-BOARD OF STUDIES) SECTION

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कला विद्याशाखेतील पदवी स्तरावरील
मराठी विषयाचा सी.बी.सी.एस. पॅटर्नचा
अभ्यासक्रम शैक्षणिक वर्ष २०१६-१७
पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक १२ मे २०१६ रोजी संपन्न झालेल्या ३६व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.९/३६-२०१६ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील कला विद्याशाखेतील पदवी स्तरावरील खालील विषयाचा **C.B.C.S. (Choice Based Credit System) Pattern** चा अभ्यासक्रम शैक्षणिक वर्ष २०१६-१७ पासून लागू करण्यात येत आहे.

१. बी.ए./बी.कॉम./बी.एस्सी. मराठी (द्वितीय भाषा आणि ऐच्छिक) — प्रथम वर्ष (सत्र पहिले व दुसरे)

सदरील अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहे. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,
विष्णुपुरी, नांदेड — ४३१ ६०६.
जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदवी-सीबीसीएस अभ्यासक्रम/
२०१६-१७/८७३
दिनांक : १२.०८.२०१६.

स्वाक्षरित /—
संचालक
महाविद्यालय व विद्यापीठ विकास मंडळ

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. परीक्षा नियंत्रक यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

स्वामी रामानंद तीर्थ मराठवाडा, विद्यापीठ, नांदेड

विषय :- मराठी

पदवी अभ्यासक्रम- सत्र पद्धती व ऐच्छिक निवड श्रेयांक पद्धत (CBCS)

बी.ए. प्रथम वर्ष - जून- २०१६ पासून लागू

सत्र	अभ्यासपत्रिका	अभ्यासपत्रिकेचे नाव	आठवड्याच्या तासिका	एकूण तासिका	अंतर्गत मूल्यांकन CA	सत्र गुण ESE	एकूण गुण	श्रेयांक
I	I	आधुनिक मराठी गद्य वाङ्मय	०४	५५	३५	४०	७५	०३
	II	आधुनिक मराठी कविता	०४	५५	३५	४०	७५	०३
II	द्वितीय भाषा S.L.I	साहित्यगाथा भाग-१	०४	५५	३५	४०	७५	०३
	III	आधुनिक मराठी गद्य वाङ्मय	०४	५५	३५	४०	७५	०३
	IV	आधुनिक मराठी कवितेतील प्रवाह	०४	५५	३५	४०	७५	०३
	द्वितीय भाषा (S.L.) II	साहित्यगाथा भाग-२	०४	५५	३५	४०	७५	०३

ऐच्छिक निवड श्रेयांक पद्धत- (CBCS) पॅटर्न

अभ्यासक्रम व गुणविभागणी

सत्र पहिले- अभ्यासपत्रिका- (I)

अभ्यासक्रम

सत्र : पहिले

एकूण तासिका= ५५

गुण= ७५

॥ बी.ए. प्रथम वर्ष- ऐच्छिक मराठी ॥

सत्र पहिले : अभ्यासपत्रिका- पहिली- “आधुनिक मराठी गद्य वाङ्मय”

घटक

कथा:

२५ तासिका

१. बी.रघुनाथ- काळी राधा
२. विभावरी शिरूरकर- बाबांचा संसार माझा कसा होणार?
३. हमीद दलवाई- लाट
४. चारूता सागर- भूक
५. जयंत नारळीकर-प्रेषिताचा संदेश
६. योगीराज वाघमारे- बेगड
७. द.ता. भोसले- सुटका
८. अमर हबीब- ईद

वैचारिक:

१५ तासिका

१. डॉ. बाबासाहेब आंबेडकर- शील व सौजन्य नसेल तर
२. संत गाडगेबाबा- गाडगेबाबांचे शेवटचे कीर्तन
३. डॉ. आ.ह. साळुंखे- छत्रपती शाहू: आमचा लोकसिद्ध ईश्वर
४. शेषराव मोरे- शेतकऱ्याच्या दुःखाचे सनातन मूळ!

संपादित पुस्तक:

“आधुनिक मराठी गद्य वाङ्मय”

“साहित्यविवेक”

गुणविभागणी/ श्रेयांक

१) आधुनिक मराठी गद्य वाङ्मय- ७५ गुण (०३ श्रेयांक)

घटक:-ESE

कथा- दीर्घोत्तरी पर्यायी स्वरूपाचे दोन प्रश्न : २० गुण

वैचारिक- दीर्घोत्तरी पर्यायी स्वरूपाचा एक प्रश्न : १० गुण

बहुपर्यायी वस्तुनिष्ठ प्रश्न - कथा विभागावर ०६ प्रश्न- १० गुण

व वैचारिक विभागावर ०४ प्रश्न.

टीप:- अभ्यासपत्रिकेतील दीर्घोत्तरी प्रश्न ज्या घटकावर विचारले असतील ते घटक वगळून अन्य घटकावर वस्तुनिष्ठ प्रश्न विचारले जातील.

अंतर्गत मूल्यांकन गुणविभागणी - CA तासिका १५

संभाषण कौशल्य विकसनासाठी - १५ गुण

यात चर्चासत्र (सेमिनार)/गटचर्चा/साहित्य घटकावर भाष्य इ.

लेखनकौशल्य, शोधन व संशोधनवृत्ती विकसनासाठी- २० गुण

यात रूपरेषेवरून, वाक्प्रचार, म्हणी, घटना-प्रसंग यापैकी एकावरून

कथालेखन/वैचारिक-चिंतनात्मक, वर्णनात्मक, चरित्रात्मक एका निबंधाचे लेखन/बोलीभाषेचे स्वरूप सांगून परिसरातील बोली भाषेतील शब्द,

म्हणी, वाक्प्रचार इत्यादींचे संकलन/मुलाखत (शेतकरी, लेखक, कवी, पत्रकार, शिक्षक, चित्रकार, उद्योजक, डॉक्टर, अभिनेता, खेळाडू, समाजसेवक, राजकीय नेता इ.) अपेक्षित आहे.

सत्र पहिले- अभ्यासपत्रिका II

अभ्यासक्रम-

सत्र : पहिले

एकूण तासिका= ५५

गुण= ७५

॥ बी.ए. प्रथम वर्ष- ऐच्छिक मराठी ॥

सत्र पहिले : अभ्यासपत्रिका- २- “आधुनिक मराठी कविता”

प्रेमकविता:

८ तासिका

१. भा.रा.तांबे- सहज तुझी हालचाल
२. वा.रा. कांत- निळी जखम
३. इंदिरा संत- हाकेवरी आहे गाव
४. विठ्ठल वाघ- पिपय
५. रफिक सूरज- नखं

भावकविता:

८ तासिका

१. आरती प्रभू- मनाचा दगड
२. विंदा करंदीकर- पुन्हा एकदा
३. सुरेश भट- मनातल्या मनात मी
४. ग्रेस- आई
५. सिसिलिया काव्हालो- रस्ता

सामाजिक जाणिवेची कविता :

८ तासिका

१. भालचंद्र नेमाडे- कशाला रांगोळ्या घालता...
२. वसंत आबाजी डहाके- हे असंच चालत आलेलं असतं
३. भ.मा. परसवाळे- जागजागी
४. नारायण कुलकर्णी कवठेकर- सावज
५. मुबारक शेख- सीमेवरील गाव

राष्ट्रभक्तीपर कविता :

८ तासिका

१. कवी गोविंद- भारताची आरती
२. राष्ट्रसंत तुकडोजी- या भारतात बंधुभाव
३. शाहीर अमरशेख- बर्फ पेटला
४. साने गुरुजी- बलसागर भारत होवो
५. कुसुमाग्रज- गर्जा जय जयकार

गीत :

८ तासिका

१. ग.दि. माडगूळकर- झटकून टाक जीवा
२. शांता शेळके- रेशमांच्या रेघांनी
३. वामनदादा कर्डक- सांगा आम्हाला...
४. ना.धों. महानोर- हिवर्या पानात पानात
५. रविचंद्र हडसनकर- तुझी ममता

संपादित पुस्तकः
“आधुनिक मराठी कविता”
“काव्यवैभव”

गुणविभागणी/ श्रेयांक

आधुनिक मराठी कविता- ७५ गुण (०३ श्रेयांक)

घटक- ESE

अभ्यासक्रमातील २५ कवितांवर दीर्घोत्तरी पर्यायी

स्वरूपाचे ३ प्रश्न

३० गुण

बहुपर्यायी वस्तुनिष्ठ प्रश्न-

१० गुण

अभ्यासक्रमातील कवितांवर

टीप :- अभ्यासक्रमातील दीर्घोत्तरी प्रश्न ज्या घटकावर विचारले असतील ते घटक वगळून अन्य घटकावर वस्तुनिष्ठ प्रश्न विचारले जातील.

अंतर्गत मूल्यांकन गुणविभागणी - CA

१५ तासिका

संभाषण कौशल्यासाठी -

१५ गुण

यात चर्चासत्र (सेमिनार)/गटचर्चा/साहित्य घटकावर भाष्य इ.

लेखनकौशल्य, शोधन व संशोधनवृत्ती विकसनासाठी- २० गुण

यात अभ्यासक्रमाव्यतिरिक्त प्रेमजाणीवेची कविता, भावकविता,

सामाजिक जाणिवेची कविता, राष्ट्रभक्तीपर कविता, गीतकाव्य यापैकी एका प्रकारातील चार कवितांचे संकलन करून त्यावर भाष्य लिहा/एका कवितेचे रसगृहण/साहित्य घटकाचे/साहित्यकृतीचे/नाटक/मराठी चित्रपट/चित्र/शिल्प/नृत्य इ. कलाप्रकारांचे परीक्षण अपेक्षित आहे.

सत्र पहिले

द्वितीय भाषा- (S.L.) अभ्यासपत्रिका- (I)

सत्र : पहिले

द्वितीय भाषा मराठी (S.L)

एकूण तासिका= ५५
गुण= ७५

॥ बी.ए./बी.कॉम/बी.एस्सी व इतर प्रथम वर्ष- द्वितीय भाषा मराठी ॥

अभ्यासक्रम

सत्र पहिले : अभ्यासपत्रिका- १- “साहित्यगाथा” भाग १

गद्य विभाग:

२० तासिका

१. दृष्टांत- रूभणेयाचा दृष्टांत
२. महात्मा फुले- शेतकऱ्याचे शोषण
३. वि.द. घाटे- आऊ
४. नागनाथ कोत्तापल्ले- सर, देश म्हणजे काय हो ?
५. शंकरराव खरात- कमाई
६. रा.रं. बोराडे- लॉटरी
७. दादा कोंडके- जनता कला पथक

पद्य विभाग:

१० तासिका

१. संत जनाबाई : डोईचा पदर आला खांद्यावरी
२. संत एकनाथ- कुत्रें (भारूड)
३. ग.ल. ठोकळ- लक्षुमी
४. विठ्ठल रामजी शिंदे- हा धन्य ज्योतिबा झाला
५. बाबुराव बागूल- वेदा आधी तू होतास
६. फ.मुं शिंदे- स्वातंत्र्याने दिले
७. संतोष पवार- आम्हाला वाली कोणीच नाय

व्यावहारिक मराठी :

१० तासिका

१. पारिभाषिक संज्ञा : कृषी, न्याय, बँकिंग, शिक्षण, लेखा, रेल्वे, कार्यालयीन व्यवहार, संगणक
२. प्रसार माध्यमे : वर्तमानपत्र- बातमी
३. व्यक्तिमत्त्व विकास आणि भाषा

गुणविभागणी / श्रेयांक

साहित्यगाथा भाग-१ - ७५ गुण (०३ श्रेयांक)

घटक- ESE

गद्य विभाग- दीर्घोत्तरी पर्यायी स्वरूपाचा एक प्रश्न :	१० गुण
पद्य विभाग- दीर्घोत्तरी पर्यायी स्वरूपाचा एक प्रश्न :	१० गुण
व्यावहारिक मराठी- दीर्घोत्तरी पर्यायी स्वरूपाचा एक प्रश्न:	१० गुण

बहुपर्यायी वस्तुनिष्ठ प्रश्न- यात गद्य विभाग ०५ प्रश्न,

पद्य विभाग- ०३ प्रश्न आणि व्यावहारिक मराठी

०२ प्रश्न विचारले जातील.

१० गुण

टीप- अभ्यासपत्रिकेतील दीर्घोत्तरी प्रश्न ज्या घटकावर विचारले असतील ते घटक वगळून अन्य घटकावर वस्तुनिष्ठ प्रश्न विचारले जातील.

अंतर्गत मूल्यांकन गुणविभागणी - CA

१५ तासिका

संभाषण कौशल्यासाठी -

१५ गुण

यात चर्चासत्र (सेमिनार)/गटचर्चा/साहित्य घटकावर भाष्य इ.

लेखनकौशल्य, शोधन व संशोधनवृत्ती विकसनासाठी- २० गुण

यात माहितीपट/आकाशवाणीवरील भाषण/एखाद्या कार्यक्रमाचे

बातमीलेखन/विशिष्ट क्षेत्रातील बातम्यांचे संकलन (कृषी, क्रीडा, राजकीय, सामाजिक, आर्थिक, शैक्षणिक, सांस्कृतिक, आरोग्य इत्यादी) करणे अपेक्षित आहे.

संपादित पुस्तक:

“साहित्यगाथा” भाग १

ऐच्छिक निवड श्रेयांक पद्धत- (CBCS) पॉर्न

अभ्यासक्रम व गुणविभागणी

सत्र दुसरे- अभ्यासपत्रिका- (III)

॥ बी.ए. प्रथम वर्ष- ऐच्छिक मराठी ॥

एकूण तासिका= ५५
गुण= ७५

अभ्यासपत्रिका-३ - “आधुनिक मराठी गद्य वाङ्मय”

घटक :

चरित्र: १४ तासिका

१. रा.ना. चव्हाण- यशवंतरावांचे समाजकार्य
२. मो.नी. ठोके- माळकरी स्वातंत्र्य चळवळीत
३. य.दि. फडके- केशवराव जेधे
४. प्र.चिं. शेजवलकर - बांधकाम व्यवसायातील क्रांतीचे उद्गाते : बी.जी. शिर्के

प्रवासवर्णन: १३ तासिका

१. अण्णा भाऊ साठे- कलेचे माहेर
२. अनंत काणेकर- लाल ताऱ्याकडे
३. रा.भि. जोशी- दिल्ली एक ‘अजायबघर’
४. अच्युत बन : हिरोशिमा: शांततेचा संदेश देणारे शहर

ललित : १३ तासिका

१. प्रकाश नारायण संत- पानं
२. अनिल अवचट- वंशाचा दिवा
३. फादर दिब्रिटो- नजरेचा नजराणा
४. चंद्रकुमार नलगे- हरवलेल्या सावल्या

संपादित पुस्तक:

“आधुनिक मराठी गद्य वाङ्मय”

“साहित्यविविधा”

गुणविभागणी/ श्रेयांक

अभ्यासपत्रिका: आधुनिक मराठी गद्य वाङ्मय- ७५ गुण (०३ श्रेयांक)

घटक- ESE

चरित्र- दीर्घोत्तरी पर्यायी स्वरूपाचा एक प्रश्न-	१० गुण
प्रवासवर्णन- दीर्घोत्तरी पर्यायी स्वरूपाचा एक प्रश्न-	१० गुण
ललित- दीर्घोत्तरी पर्यायी स्वरूपाचा एक प्रश्न-	१० गुण

बहुपर्यायी वस्तुनिष्ठ प्रश्न-

१० गुण

यात चरित्र विभागावर ०४ प्रश्न, प्रवासवर्णन या विभागावर

०३ प्रश्न आणि ललित विभागावर

०३ प्रश्न विचारले जातील.

टीप- अभ्यासपत्रिकेतील दीर्घोत्तरी प्रश्न ज्या घटकावर विचारले असतील ते घटक वगळून अन्य घटकावर वस्तुनिष्ठ प्रश्न विचारले जातील.

अंतर्गत मूल्यांकन गुणविभागणी- CA

१५ तासिका

संभाषण कौशल्य विकसनासाठी-

१५ गुण

यात चर्चासत्र (सेमिनार)/गटचर्चा/साहित्य घटकावर भाष्य इ.

लेखनकौशल्य, शोधन व संशोधनवृत्ती विकसनासाठी-

२० गुण

यात एका चरित्रग्रंथाचे परीक्षण/तुम्ही भेट दिलेल्या स्थळाचे व केलेल्या प्रवासाचे वर्णन/प्रवासवर्णनपर ग्रंथाचे परीक्षण/वृत्तपत्र, आकाशवाणी, दूरदर्शन इत्यादी प्रसारमाध्यमासाठी जाहिरातीचा नमुना तयार करणे/मुद्रितशोधन/सर्जनात्मक लेखन (कविता, कथा, प्रसंगवर्णन, ललितलेखन इ.) अपेक्षित आहे.

सत्र दुसरे- अभ्यासपत्रिका (IV)

गुणविभागणी/ श्रेयांक

एकूण तासिका= ५५
गुण= ७५

॥ बी.ए. प्रथम वर्ष- ऐच्छिक मराठी ॥

अभ्यासपत्रिका- ४ - “आधुनिक मराठी कवितेतील प्रवाह”

दलित कविता:

८ तासिका

१. दया पवार- कोंडवाडा
२. त्र्यंबक सपकाळे- पँथर एकलव्य
३. यशवंत मनोहर- माणसासाठी आरती
४. नामदेव ढसाळ- येथला प्रत्येक हंगाम
५. प्रकाश मोगले-उपाय

ग्रामीण कविता:

८ तासिका

१. बहिणाबाई चौधरी- संसार
२. राजा मुकुंद- वाढुळले दिस
३. एकनाथ पाटील- पेटली शिवारं
४. श्रीकांत देशमुख- गाव
५. शंकर वाडेवाले- आयुष्याची धुनी

आदिवासी कविता:

८ तासिका

१. उषाकिरण आत्राम- परिवर्तन
२. बाबाराव मडावी- कुपोषण
३. भुजंग मेश्राम- मोहळ
४. वाहरू सोनवणे- चळवळ म्हणजे
५. माधव सरकुंडे - इतिहास

स्त्रीवादी कविता :

८ तासिका

१. सुहासिनी इलेंकर- ओळख पटल्यानंतर
२. हिरा बनसोडे- शापित वांझ बेटावर
३. नीरजा- माणसं वाईट नसतात तशी

४. रजनी परूळेकर - बाहुली
 ५. अनुराधा पाटील- माझ्या डोळ्या समोरून
महानगरीय जाणिवेची कविता : ८ तासिका
 १. नारायण सुर्वे- पोस्टर
 २. अरूण काळे- सायरनचे शहर
 ३. सतीश काळसेकर- आयुष्याच्या प्रत्येक संध्याकाळी
 ४. उत्तम कांबळे- शहरांच्या सीमांवर..

संपादित पुस्तक:
 “आधुनिक मराठी कवितेतील प्रवाह”
 “शब्दरत्न”

अभ्यासपत्रिका- आधुनिक मराठी कवितेतील प्रवाह- ७५ गुण (०३ श्रेयांक)
 घटक- ESE

अभ्यासक्रमातील कवितेच्या पाच विभागावर

दीर्घोत्तरी पर्यायी स्वरूपाचे तीन प्रश्न : ३० गुण

बहुपर्यायी वस्तुनिष्ठ प्रश्न १० गुण

यात कवितेच्या पाच विभागावर प्रत्येकी ०२ प्रश्न

टीप- अभ्यासपत्रिकेतील दीर्घोत्तरी प्रश्न ज्या घटकावर विचारले असतील ते घटक वगळून अन्य घटकावर वस्तुनिष्ठ प्रश्न विचारले जातील.

अंतर्गत मूल्यांकन गुणविभागणी- CA १५ तासिका

संभाषण कौशल्य विकसनासाठी- १५ गुण

यात चर्चासत्र (सेमिनार)/गटचर्चा/साहित्य घटकावर भाष्य इ.

लेखनकौशल्य, शोधन व संशोधनवृत्ती विकसनासाठी- २० गुण

यात अभ्यासक्रमाव्यतिरिक्त दलित/ग्रामीण/आदिवासी/स्त्रीवादी/महानगरीय यापैकी एका प्रकारातील चार कवितांचे संकलन करून त्यावर भाष्य लिहा.
 मराठी, हिंदी, इंग्रजी अनुवाद / पारिभाषिक संज्ञा / मराठी प्रमाण लेखनाचे नियम / तत्सम, तद्भव, देशी, परभाषी शब्दांचे संकलन इ. अपेक्षित आहे

सत्र दुसरे- द्वितीय भाषा (S.L.)

अभ्यासपत्रिका II

एकूण तासिका= ५५
गुण= ७५

॥ बी.ए./बी.कॉम/बी.एस्सी व इतर प्रथम वर्ष- द्वितीय भाषा मराठी ॥
अभ्यासपत्रिका- २- “साहित्यगाथा” भाग २

गद्य विभाग:

२० तासिका

१. छ. शिवाजी महाराज (पत्र)- रयतेस काडीचा अजार
द्यावया गरज नाही
२. डॉ. बाबासाहेब आंबेडकर- तव्याचा जाय बुरसा, मग तो
सहजचि होय आरसा
३. आनंदीबाई शिर्के- सांजवात
४. दुर्गा भागवत- जेष्ठातले पहिले मेघमंडळ
५. श्रीनिवास कुलकर्णी- मृगजळातल्या यक्षघराला
६. मधुकर केचे- डॉ. पंजाबराव - एक जमाखर्च
७. द.मा. मिरासदार- माझ्या बापाची पेंड
८. जयंत पवार- टेंगशेच्या स्वप्नात ट्रेन

पद्य विभाग:

१० तासिका

१. संत नामदेव : दोन अभंग
२. संत कान्होपात्रा : दोन अभंग
३. सावित्रीबाई फुले- जोतिबास नमस्कार
४. आनंद यादव- माय लेकरं
५. लोकनाथ यशवंत- एका मोर्चाचा शेवट
६. फ.म. शहाजिंदे- कवितेचे मानधन
७. सौमित्र- ही वही

व्यावहारिक मराठी:

१० तासिका

१. कार्यालयीन पत्रव्यवहार
२. इतिवृत्त- टिप्पणी
३. कार्यक्रमाचे संयोजन, सूत्रसंचालन

गुणविभागणी/ श्रेयांक

अभ्यासपत्रिका- साहित्यगाथा भाग-२ - ७५ गुण (०३ श्रेयांक)

घटक ESE

गद्य विभाग- दीर्घोत्तरी पर्यायी स्वरूपाचा एक प्रश्न : १० गुण

पद्य विभाग- दीर्घोत्तरी पर्यायी स्वरूपाचा एक प्रश्न : १० गुण

व्यावहारिक मराठी- दीर्घोत्तरी पर्यायी स्वरूपाचा एक प्रश्न : १० गुण

बहुपर्यायी वस्तुनिष्ठ प्रश्न-

यात गद्य विभाग ०५ प्रश्न, पद्य विभाग ०३ प्रश्न आणि व्यावहारिक मराठी ०२ प्रश्न विचारले जातील. १० गुण

टीप- अभ्यासपत्रिकेतील दीर्घोत्तरी प्रश्न ज्या घटकावर विचारले जातील ते घटक वगळून अन्य घटकावर वस्तुनिष्ठ प्रश्न विचारले जातील.

अंतर्गत मूल्यांकन गुणविभागणी- CA १५ तासिका

संभाषण कौशल्य विकसनासाठी- १५ गुण

यात चर्चासत्र (सेमिनार)/गटचर्चा/साहित्य घटकावर भाष्य इ.

लेखनकौशल्य, शोधन व संशोधनवृत्ती विकसनासाठी- २० गुण

यात एखाद्या कार्यक्रमाचे वृत्तांत लेखन/विशिष्ट विषयावरील (कृषि, शिक्षण, सौंदर्य प्रसाधने, वाहन, जनहितार्थ, भ्रमणध्वनी इ. क्षेत्र)जाहिरातीचे संकलन/विविध वृत्तपत्रातील अग्रलेखांचे संकलन.



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड- ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

Established on 17th September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



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मानवविज्ञान विद्याशाखेतील पदवी
स्तरावरील तृतीय वर्षाचे CBCS Pattern
नुसारचे अभ्यासक्रम शैक्षणिक वर्ष
२०१८-१९ पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक १४ जून २०१८ रोजी संपन्न झालेल्या ४१व्या मा. विद्या परिषद बैठकीतील विषय क्र.११/४१-२०१८ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील तृतीय वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१८-१९ पासून लागू करण्यात येत आहेत.

- १) इंग्रजी
- २) हिंदी
- ३) कन्नड
- ४) मराठी
- ५) पाली
- ६) संस्कृत
- ७) उर्दू
- ८) अर्थशास्त्र
- ९) भूगोल
- १०) इतिहास
- ११) सैनिकशास्त्र
- १२) तत्त्वज्ञान
- १३) राज्यशास्त्र
- १४) लोकप्रशासन
- १५) समाजशास्त्र

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड - ४३१ ६०६.

जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदवी-सीबीसीएस अभ्यासक्रम/
२०१८-१९/२५२

दिनांक : २५.०६.२०१८.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, यू.जी.सी. कक्ष, प्रस्तुत विद्यापीठ.

स्वाक्षरित / -

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग



**SWAMI RAMANAND TEERTH
MARATHWADA UNIVERSITY, NANDED**

**SYLLABUS
B.A. THIRD YEAR
SEMESTER-V & VI
ECONOMICS**

**SEMESTER PATTERN
(CHOICE BASED CREDIT SYSTEM)
WITH EFFECT FROM 2018-19**

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
Choice Based Credit System (CBCS) Course Structure
Faculty of Humanities
B.A. Third Year
SEMESTER PATTERN - ECONOMICS
With Effect From 2018-19

Semester	Core Course	Paper No.	Name of Paper	Lecture/ week	Total No. of Lectures	CA	ESE	Total Marks	Credits
Sem- V	DSE-ECO	I	History of Economic Thoughts – I (Optional) OR Mathematical Economics – I (Optional) OR Quantitative Techniques - I (Optional) OR Industrial Economics (Optional)	4	55	35	40	75	3
	GE-ECO	I	Indian Economy (Compulsory)	4	55	35	40	75	3
	SEC-ECO	III	Financial Inclusion and Financial Literacy	3	45	25	25	50	2
Total				11	155	95	105	200	8
Sem-VI	DSE-ECO	II	History of Economic Thoughts – II (Optional) OR Mathematical Economics – II (Optional) OR Quantitative Techniques - II (Optional) OR International Economics (Optional)	4	55	35	40	75	3
	GE-ECO	II	Public Finance (Compulsory)	4	55	35	40	75	3
	SEC-ECO	IV	Entrepreneurship Development	3	45	25	25	50	2
Total				11	155	95	105	200	8
Grand Total (Semester V & VI)				22	310	190	210	400	16

SEC- Skill Enhancement Course, DSE - Discipline Specific Elective, GE- Generic Elective

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Choice Based Credit System (CBCS) Pattern of Economics

Faculty of Humanities

B.A. Third Year

With Effect From 2018-19

Subject: ECONOMICS

SEMESTER - V

Paper No.	Title of the Paper	Continuous Assessment (C.A.)	End of Semester Examination (E.S.E.)
DSE-ECO – I	History of Economic Thoughts – I (Optional) OR Mathematical Economics – I (Optional) OR Quantitative Techniques - I (Optional) OR Industrial Economics (Optional)	35	40
GE-ECO-I	Indian Economy (Compulsory)	35	40
SEC-III	Financial Inclusion and Financial Literacy	25	25

SEMESTER - VI

Paper No.	Title of the Paper	Continuous Assessment (C.A.)	End of Semester Examination (E.S.E.)
DSE –ECO-II	History of Economic Thoughts – II (Optional) OR Mathematical Economics – II (Optional) OR Quantitative Techniques - II (Optional) OR International Economics (Optional)	35	40
GE-ECO II	Public Finance (Compulsory)	35	40
SEC-IV	Entrepreneurship Development	25	25

Core Course : (DSE + GE)

75 Marks

1. Continuous Assessment (C.A.): 35 Marks.
Two Class Test each for 10 Marks + One home assignment for : 15 Marks.
2. End of Semester Examination (E.S.E.) : 40 Marks.

Skill Enhancement Course (SEC):

50 Marks

1. Continuous Assessment (C.A.) : 25 Marks.
Two Class Test each for 5 Marks + One Seminar (Abstract should be must) for :15 Marks.
2. End of Semester Examination (E.S.E.) : 25 Marks.
Skill development activities for : 10 Marks.
Theory examination on syllabus by using University Answer Book : 10 Marks.
Presentation for : 5 Marks.

End of Semester Examination (ESE)
Question Paper Pattern
ECONOMICS
With Effect From 2018-19

A) DSE and GE ECO : 40 Marks

Q.1 Descriptive question Or Descriptive question	10 Marks
Q.2 Descriptive question Or Descriptive question	10 Marks
Q.3 Descriptive question Or Descriptive question	10 Marks
Q.4 Write short notes on (Any two) I) II) III) IV)	10 Marks

B) Skill Enhancement Course (SEC): 25 Marks

Skill development activities	10 Marks
Theory examination on syllabus by using University Answer Book	10 Marks
Presentation	5 Marks

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

With Effect From 2018-19

B.A. Third Year

ECONOMICS

SEMESTER – V

HISTORY OF ECONOMIC THOUGHTS-I (Optional)

DSE-ECO-I

Credits: 03

Periods:55

Marks: 75

Marks : 75 =Theory(ESE) 40 + Internal (CA) 35

Course outline:

In this course an analysis of Western Economic thinkers has been taken. One should not analyze present economic thoughts without studying history of economic thoughts. Economic situation is presently changing hence the study of this course must. So the present paper has been framed for the study.

In the western economic thinkers medieval period mercantilism and physiocracy has been analyzed. Since, the father of Economics Adam Smith up to Karl Marx, classical thoughts are framed in the present course. Besides that Neo classical economist Fredrich List to Josef Schumeter is also framed in the course.

Course Objectives:

1. To study the western economic thinkers and their economical analysis.
2. To study the thoughts of economists in the present scenario.
3. To study the applicability of western economic thought for the Indian contest.
4. To study the success of Prof. Pigou's economic welfare thought in Indian welfare state.

Course Utility:

1. Pupils will understand the basic economic concepts by studying the course.
2. Students will be able to solve the economic problems by studying this course.
3. Students will acquire the judgment power by studying the comparative approach.

Course Content:

Unit-I Early Period:

Periods 15

- 1.1 Mercantilism - Causes of rise of Mercantilism and Main features of Mercantilism.
- 1.2 Physiocracy - Causes of rise of Physiocracy and Main features (The Natural order, The Net Product & The circulation of wealth) of physiocracy.

Unit-II Classical Period :

Periods 20

- 2.1 Adam Smith- Division of Labour and Theory of value.
- 2.2 Devid Ricardo- Theory of value & thoughts on wages.
- 2.3 Thomas Malthus- Theory of population.
- 2.4 Karl Marx- Theory of surplus value & crisis of capitalism.

Unit-III Neo Classical Period:

Periods 20

- 3.1 Fredrich List - Stages of Economic Development and theory of protection.
- 3.2 Alfred Marshall- Role of time in price determination. Concepts of Internal & External Economics.
- 3.3 Arthur Cecil Pigou- Ideas on Economic welfare.
- 3.4 Josef A. Schumpeter- Role of innovation in Economic Development.

Books Recommended :

1. Black Hours R. (1985); A History of Modern Economic Analysis; Basil Blackwell Oxford.
2. Gangio, B.N. (1977); Indian Economic Thought; A 19th Century Perspective, Tata McGraw Hill; New Delhi.
3. Gide C. and G. Rist (1956); The Development of Economic Doctrine, (2nd Edition); Congman Group, London.
4. Dr. S.M. Desai, Development of Economic Thought;
5. Kautilya (1992); The Arthashastra; Edited Rearranged; Translated and Introduced by D.N. Rangarajan; Pergain Books; New Delhi.
6. Roll, E (1973); A History of Economic Thought; Feber; London.
7. Schumpeter, J.A. (1954); History of Economic analysis; Oxford University Press; New York.
8. Seshadri, G.B. (1997); Economic Doctrines; B.R. Publishing Corporation; Delhi.
9. प्रा.राय लेल र, डॉ.दामाजी, आर्थि विचारांचा इतिहास.
10. डॉ.पाटील जे.एफ., आर्थि विचारांचा इतिहास.
11. भूपेंद्र सिंह, आर्थि विचारों ा इतिहास, वंदना पब्लि शन्स, नई दिल्ली

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

With Effect From 2018-19

B.A. Third Year

ECONOMICS

SEMESTER – V

MATHEMATICAL ECONOMICS –I (Optional)

DSE – ECO -I

Credits: 03

Periods:55

Marks: 75

Marks: 75 =Theory(ESE) 40 + Internal (CA) 35

Course Outline :

The courses on microeconomic theory, macroeconomic theory, statistics and econometrics set out in this syllabus. In this course, particular economic models are not the ends, but the means for illustrating the method of applying mathematical techniques to economic theory in general. The level of sophistication at which the material is to be taught is indicated by the contents of the prescribed textbook.

Course Objectives :

1. To transmit the body of basic mathematics that enables the study of economic theory at the undergraduate level.
2. To facilitate understanding of the basic concepts of Economics with the help of Mathematics.
3. To encourage students to analyse economic theories by mathematical methods.

Course Utility :

The paper is useful for the students for illustrating concepts of economics by mathematical techniques. It is also helpful to understand more advanced branches of economics like econometrics, quantitative techniques etc.

Course Content:

Unit -I Matrix:

Periods 20

- 1.1 Meaning and Types of matrices
- 1.2 Algebra of matrices
- 1.3 Properties of determinants
- 1.4 Inverse of the matrix
- 1.5 Solution of simultaneous equations by using matrix

Unit-II Index and Logarithm :**Periods 15**

- 2.1 Rules of indices, explanation with examples
- 2.2 Laws of logarithm, explanation with examples
- 2.3 Importance of indices and logarithms in economics

Unit-III Differential Calculus :**Periods 20**

- 3.1 Rules of differentiation
- 3.2 Total and Partial derivative
- 3.3 Maxima and Minima
- 3.4 Uses of derivative in economics

Books Recommended :

- 1. Allen, R.G.D. (1974), Mathematical Analysis for Economists, Macmillan Press and ELBS, London.
- 2. Chiang, A.C. (1986), Fundamental Methods of Mathematical Economics, McGraw Hill, New York.
- 3. Gupta, J. D., Gupta, P. K. And Man Mohan, Mathematics for Business and Economics, Tata McGraw-Hill Publishing Company, New Delhi
- 4. Henderson, J.M. and R.E. Quandt (1980), Microeconomic Theory : A Mathematical Approach, McGraw Hill, New Delhi.
- 5. Koutsoyiannis, A. (1979), Modern Microeconomics, (2nd Edition), Macmillan Press, London.
- 6. Mehta, B. C. And Madnani G. M. K, Mathematics for Economics, S. Chand Publication, New Delhi

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

With Effect From 2018-19

B.A. Third Year

ECONOMICS

SEMESTER – V

QUANTITATIVE TECHNIQUES -I (Optional)

DSE – ECO -I

Credits: 03

Periods:55

Marks: 75

Marks :75 =Theory(ESE) 40 + Internal (CA) 35

Course outline:

Quantitative Techniques is the main stream of the Economics. Every student of economics is must study the Quantitative Techniques. So the main objectives of this course are to train the students to use statistical techniques in economic analysis. Variation, correlation and regression are main content of the course. The emphasis of this course is on understanding economic concepts with the help of statistical method.

Course Objectives:

1. To apply quantitative skill to real economic problems.
2. To study the rank correlation coefficient and apply practically.
3. To study the various techniques in statistics.
4. To study the mathematical techniques in the competitive exams.
5. To study for the increase of the numerical efficiency among the student.
6. To study the use of correlation in the research.

Course Utility:

1. Student will study the course as a guideline in the general economic affair.
2. Student will use techniques easily in the research of humanities.
3. The course will be useful to the student since the course is best on the techniques of statistics.

Course Content:

Unit-I Measures of Variation : Periods 18

- 1.1 Meaning of Variation:
- 1.2 Methods of Measuring Variation-
 - i) Mean Deviation & its coefficient - Mean Deviation from mean, Mean Deviation from median and Mean Deviation from mode.
 - ii) Lorenz Curve.

Unit-II Correlation Analysis : Periods 18

- 2.1 Meaning of correlation
- 2.2 Types of Correlation- Positive linear correlation, Negative linear correlation, positive non linear correlation, Negative non linear correlation, simple correlation, multiple correlation & partial correlation.
- 2.3 Charles Edward spearman's Rank correlation coefficient - Rank are given, Rank are not given, Equal Rank;
- 2.4 Merits and Limitation of Rank correlation method

Unit-III Regression Analysis : Periods 19

- 3.1 Meaning of Regression Analysis.
- 3.2 Regression Line- Determination of Regression Line with the help of Least Square method- Regression line of x on y and Regression line of y on x.

Books Recommended :

1. Alien, R. G. D. (1974); Mathematical Analysis for Economists, Macmillan Press London.
2. Gupta, S. C. and Kapoor V. K. (1993) Applied General Statistics; Prentice Hall; New Delhi.
3. Chiang, A. C. (1986); Fundamental Methods of Mathematical Economics; (3rd Edition); McGraw Hill; New Delhi.
4. Monga, G. S. (1972); Mathematical and Statistics for Economists; Vikas Publishing House; New Delhi.
5. Speigal, M. R. (1972); Theory and Problems of Statistics: McGraw Hill Book; London.
6. S. P., Gupta: 'Statistical Methods'; Sultun Chand and Sons: New Delhi.
7. Pillai and Bagavathi: Statistics; S. Chand and Company Ltd.; New Delhi.
8. प्रा.राम देशमु ा, मुलभूत सांि य ि
9. डॉ.देश र, डॉ.देशपांडे, सांि य ि पध्दती
10. डॉ.विश्वास दम, सांि यती पध्दती

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

With Effect From 2018-19

B.A. Third Year

ECONOMICS

SEMESTER – V

INDUSTRIAL ECONOMICS -I (Optional)

DSE – ECO -I

Credits: 03

Periods: 55

Marks: 75

Marks: 75 =Theory(ESE) 40 + Internal (CA) 35

Course Outline:

In the present world Industry plays an important role in GDP and Employment. Past and Present governments are paying extensive attention on Industrial Development. This paper Intends to provide basic issues to students such as-organization of Firm, some important sectors of Industries, Industrial Policy and problems of Industries as well as Role of MNCs on Indian Industrial Development.

Course Objectives:

The specific objectives of the course are –

1. To provide basic knowledge of Industrial Economics.
2. To analyze the problems of Indian Industries in present scenario.
3. To illustrate the Industrial Policy and Industrial Growth.
4. To provide knowledge of Liberalization and Indian Industrial Growth.
5. To aware the students regarding problems of manufacturing sector of Indian economy.

Course Utility:

1. The students will know why the entrepreneurs choose specific locations to establish the Industries.
2. The students will aware about the importance of MNCs in Indian Industrial Economy
3. The students will get knowledge of some large industries, agro based and small scale Industries.
4. The students will learn about the changes in Industrial Policy of India

Course Content:

Unit - 1 Framework of Industrial Economics: Periods 20

- 1.1 Industrial Economics-Meaning , Scope and Significance.
- 1.2 Types of Firms – Individual, Proprietorship, Partnership, Joint Stock Companies, Public Enterprises.
- 1.3 Industrial Location: Factors affecting on Industrial Location. Alfred Weber’s Theory of Industrial Location.
- 1.4 Multinational Corporations- Meaning , Importance and Advantages and Disadvantages .

Unit - 2 Performance and Problems of Industries: Periods 20

- 2.1 Large Scale Industries-Cotton , Textile, Sugar and Iron and Steel.
- 2.2 Small Scale Industries: Meaning, Importance, Problems and Measures for Growth of Small Scale Industries.
- 2.3 Agro-based Industries-Meaning , Importance and Problems
- 2.4 Industrial Sickness- Causes and Remedial Measures.

Unit - 3 Indian Industrial Policies and Growth: Periods 15

- 3.1 Industrialization – Meaning and Importance in Economic Development
- 3.2 Industrial Policy of 1991, Trends in Industrial Growth after 1991.
- 3.3 Effects of Liberalization and Privatization on Indian Industrial Growth.

Books Recommended :

1. Kuchhal, S.C.(1980), Industrial Economics of India (5th Edition); Chaitanya Publishing House, Allahabad.
2. Ahluwalia I.J.(1985); Industrial Growth in India; Oxford University Press; New Delhi.
3. Singh, A. and A.N., Sadhu (1988) Industrial Economics; Himalaya Publishing House, Mumbai.
4. Barthwal R.R.(1992); Industrial Economics; An introductory Text Book; Wiley Eastern Ltd; New Delhi.
5. Desai, B.(1999); Industrial Economy in India (3rd Edition); Himalaya Publishing House, Mumbai.
6. Naidu K.M.(1999); Industrialization and Regional Development in India, Reliance Publishing House, New Delhi.
7. Mamoria and Mamoria (2000); Dynamics of Industrial relation in India (15th Edition); Himalaya Publishing House; Mumbai.
8. Datta R & K.P.M. Sundram; (2014) Indian Economy; 50th Edition,S.Chand & Co.Ltd; New Delhi.
९. देसाई, भालेराव (१९८८), भारतातील औद्योगिक अर्थशास्त्र, निराली प्रकाशन, पूणे.
१०. रायखेलकर, खेडकर (१९९९), औद्योगिक अर्थशास्त्र, विद्या बुक पब्लिशर्स, औरंगाबाद.
११. कोंडेवार यु.बी., स्मिता कोंडेवार (२००५) औद्योगिक अर्थशास्त्र, शोभाभारती प्रकाशन, अहमदपूर.
१३. इंगळे बी.डी., (२०१२) औद्योगिक अर्थशास्त्र, अरूणा प्रकाशन, लातूर.
१४. चव्हाण एन.एल., (२०१२) भारतीय अर्थव्यवस्थेचा विकास भाग-१, प्रशांत पब्लिकेशन्स, जळगांव.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

With Effect From 2018-19

B.A. Third Year

ECONOMICS

SEMESTER - V

INDIAN ECONOMY- GE - ECO –I (Compulsory)

Credits: 03

Periods: 55

Marks: 75

Marks : 75 =Theory(ESE) 40 + Internal (CA) 35

Course Outline :

This course is not only highly relevant to students and scholars interested in expanding their knowledge of Indian Economy, but also policymakers wanting to know more about opportunities offered by Indian Economy. This paper introduces types and challenges of Indian Economy like increasing population, Unemployment, Poverty, Inflation, Crises in Agricultural Sectors, etc. The present paper also introduces the role of different sectors in Indian Economy.

This paper includes economic planning and NITI Commission. The paper illustrates the impact of new economic reforms on Indian Economy. This paper also deals with the concept of foreign direct & Indirect Investment policy of India.

Course Objectives :

The specific objectives of the course are -

1. To expand student's knowledge about Indian Economy.
2. To let students know more about opportunities offered by Indian Economy.
3. The let students know more about challenges of Indian Economy.
4. To develop assessing capacity of students of economic policies.
5. To develop economic problem solving capacity of students.

Course Utility :

1. Student will acquire the knowledge of Indian Economy.
2. Student will understand various challenges of Indian Economy.
3. Student will be able to suggest various measures to policy makers for solution of economic problem.

Course Content :

Unit-I Nature of Economy :

Periods-20

- 1.1 Meaning and Types of Economy -Capitalist, Socialist, Mixed, Closed and Open Economy.(In brief)
- 1.2 Nature and Challenges of Indian Economy -Population, Poverty, Unemployment, Fluctuations in Agricultural commodity Prices, farmers suicides, etc.
- 1.3 Role of Agriculture, Industry and Service Sectors in Indian Economic Development.
(Sectoral share in GDP, Employment and Growth rates)
- 1.4 Human Development Index – Concept and Components.

Unit-II Economic Planning and Infrastructure :

Periods-20

- 2.1 Economic Planning – Definition, Meaning, Needs and Objectives.
12th Five Year Plan-Objectives and Achievements
- 2.2 National Institutions for Transforming India (NITI) Commission - Objectives and Structure.
- 2.3 Infrastructure – Transport, Energy, Education and Health

Unit-III Economic Reforms in India :

Periods-15

- 3.1 New Economic Reforms – Liberalization, Privatization and Globalization and its Impact on Indian Economy.
- 3.2 Role of Foreign Capital in Economic Development
- 3.3 Foreign Direct Investment & Foreign Institutional Investment - Meaning and Policy.
- 3.4 Impact of foreign Capital on Indian Economy (Merits & Demerits).

Books Recommended:

1. Gaurav Datt & Ashwini Mahajan, Datt Sundram's Indian Economy; S.Chand and Sons Co.Ltd;New Delhi.
2. Misra S.K.and Puri V.K.;I (Edition 2014) Indian Economy Its Development Experience, Himalaya Publishing House ,Mumbai.
3. Dhingra Ishwar (2006) ;Indian Economy S.Chand and sons Co.Ltd;New Delhi.
4. Uma Kapil (2013),Indian Economy, Performance and Policies,Academic Foundation,New Delhi.
5. Ahluwalia I J and I.M.D. Little,1(999),Indian Economic Reforms and Development.
6. Brahmananda R.R. and Panchmukhi V.A.(Edition 2001),Development Experience in Indian Economy Inter-State Perspectives, Bookwell, Delhi.

7. Gupta S. P. (1989), Planning and Development in India; A Critique, Allied Publishers Pvt.Ltd., New Delhi.
8. Jha Raghendra (Ed 2003) Indian Economic Reforms Hampshire, U.K.
9. Chug Ram L. and Uppal J.S. (1985), Black Money in India Tata McGraw Hill, Sagar Publication New Delhi.
10. Gupta Suraj B. (1992); Black Money in India, Sage Publication, New Delhi.
11. Bhagwati Jagdish, (2004); In Defence of Globalisation, Oxford University Press U.K.
12. Government of India, Economic Survey 2004-05
13. World Development Report, UNDP.
14. डॉ. जी.एन. झामरे, भारतीय अर्थव्यवस्था, विास व पर्यावरण आत्म अर्थशास्त्र, पिंपळापुरे अँड .. पब्लिशर्स, नागपूर. 2011.
15. भोसले व गटे, भारतीय अर्थव्यवस्था, फडें प्रकाशन, कोल्हापुर.
16. देसाई भालेराव, भारतीय अर्थव्यवस्था, निराली प्रकाशन, पुणे.
17. प्रा. एन.एल. चव्हाण, भारतीय अर्थव्यवस्था, प्रशांत पब्लिकेशन, जळगाव.
18. गौरव दत्त, आश्विनी महाजन, दत्त एवं सुन्दरम भारतीय अर्थव्यवस्था, एस. चन्द एंड कंपनी लि., नई दिल्ली.
19. श्री. रंजन कोळंबे, भारतीय अर्थव्यवस्था, भूगर्भ प्रकाशन, पुणे. 2017-18.
20. डॉ. रीतजी. देसले, स्पर्धा परीक्षा संपूर्ण अर्थशास्त्र, दीपस्तंभ प्रकाशन, जळगाव.
21. प्रतियोगिता दर्पण, भारतीय अर्थव्यवस्था, हिन्दी मासिक, आग्रा.
22. रॉनि ल, भारतीय अर्थव्यवस्था, (हिन्दी/Eng), Chronicle Publication, Noida.
२३. सुर्यकांत पवार (२०१४) भारतीय अर्थव्यवस्था, स्वयंदिप प्रकाशन, पुणे.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

With Effect From 2018-19

B.A. Third Year

ECONOMICS

SEMESTER – V

SKILL ENHANCEMENT COURSE

FINANCIAL INCLUSION AND FINANCIAL LITERACY - SEC-III

Credits: 02

Periods: 45

Marks: 50

Marks: 50 = (CA) 25 + (ESE) 25	
Financial Inclusion and Financial Literacy	
<p>Course Outline:</p> <p>The course will be given in the form of lectures and practical work. Financial inclusion and financial literacy is the base of Cashless Transactions. As the majority of population is still not included in the inclusive growth. The Growth of financial inclusion becomes a challenge for the Indian Economy. Financial literacy is considered as important adjunct for promoting financial inclusion, consumer protection and ultimately financial stability. The aims of the Skill Enhancement Course are to focus on financial inclusion and financial literacy for the Indian formal sector.</p> <p>Course Objectives:</p> <p>The Specific Objectives of this course are :</p> <ul style="list-style-type: none">✓ To develop the understanding of the basic concept of financial inclusion and financial literacy.✓ To develop the awareness of saving and investment.✓ To develop the financial activities of students.✓ To develop the financial literacy of students✓ To include each and every citizens in process of financial inclusion. <p>Course Utility :</p> <p>Completed the essential reading and activities students Should able to :</p> <ul style="list-style-type: none">✓ Student will be able to create their own financial plan.✓ Student will be able to create their own budget.✓ Student will propose a personal saving and Investment plan.✓ Student will be examining how their choice of carrier and lifestyles will affect their financial plan.✓ Student will be aware about financial inclusion and financial literacy.✓ Student face a challenging economical future.	

	Content :	Periods
Unit: I	<p>Financial Inclusion: Meaning, Definitions, Importance and Merits and Demerits, Financial inclusion in India, Jan Dhan Yojana, Pradhan Mantri Suraksha Bima Yojana (PMSBY), Pradhan Mantri Jeevan Jyoti Bima Yojana (PMJJBY).</p>	10
Unit: II	<p>Financial Literacy: Meaning, Definitions, Importance and Merits and Demerits, Financial Planning, Goal Setting, Risks Vs Returns, The Power of Compounding</p>	10
Unit: III	<p>Saving and Investment: a) Saving : Meaning, Definitions, Importance, Sources of Savings. Role of Saving in Indian Economy. b) Investment: Meaning, Definitions, Importance, Types of Investment, Role of Investment in Indian Economy.</p>	10
	<p style="text-align: center;">SKILL DEVELOPMENT ACTIVITIES (any five of the following)</p> <ol style="list-style-type: none"> 1. Prepare a chart showing sources of saving and types of Investment. 2. Prepare a chart showing sources of financial inclusion and steps of financial literacy. 3. Write a minimum two pages on your current financial condition and future financial plans. 4. Student will search article on financial planning and write what they learned from it. 5. To collect the data of financial services in your area/Village with the help of primary data. 6. Take a brief opinion or review of Jan Dhan Yojana (JDY) from bankers and customers. 7. Take a brief opinion of Pradhan Mantri Suraksha Bima Yojana (PMSBY) from bankers and customers. 8. Take a brief opinion or review of Pradhan Mantri Jeevan Jyoti Bima Yojana (PMJJBY) from bankers and customers. 	15

Books Recommended :

1. Schumpeter J.A. (1934), The Theory of Economic Development, Harvard University Press Cambridge.
- 2.. Lewis W. Arthur (1954), Economic Development with Unlimited Supply of Labour, the Manchester School.
3. Jhingam M.L. (1973),The Economic of Development and Planning, Vikas Publishing House, New Delhi.
4. Misra S.K., Puri V.K. (XIV Edition 2012), Economics of Development and Planning, Himalaya Publishing House, New Delhi
5. M.S. Sriram (2015) edited - Talking Financial Inclusion in Liberalised India: Conversations with Governors of the Reserve Bank of India.
6. K.G. Karmakar, G.D. Banerjee and N.P. Mohapatra (2011): Towards Financial Inclusion in India, Sage Publishers, New Delhi.
7. Alliance for Financial Inclusion. (2010). “Consumer Protection: Leveling the Playing Field in Financial Inclusion” Bangkok, Thailand.
8. Bhole L.M.(2004), Financial Institutions and Markets, 4th Edition Tata McGraw-Hill, New Delhi.
9. Sobhesh Kumar Agarwalla, Samir k. Barua,Joshy Jacob,Jayanth R.Varma,(2013) “Financial Literacy among working Young in Urban India” Indian Institute of Management, Ahmedabad, India.
10. Report based on the studies undertaken under Financial Inclusion Project of UNDP, (2012), “Financial Literacy as a tool for Financial Inclusion & ClientProtection.” United Nations Development Programme New Delhi.
11. गायकवाड ज.पा.,अशोक बोरीकर (१९९१) आर्थिक विकास आणि नियोजन, विद्या प्रकाशन, नागपूर.
12. पत्की अ.द., सावळे म.ना. (१९९१) विकासाचे अर्थशास्त्र आणि नियोजन, विद्या बुक्स पब्लिशर्स, औरंगाबाद.
13. भोसले,काटे(१९९८) विकासाचे अर्थशास्त्र आणि नियोजन, फडके प्रकाशन,कोल्हापूर.
14. वावरे अनिलकुमार, लोंढे मारुती (२०१५), विकास व नियोजनाचे अर्थशास्त्र, एज्युकेशन पब्लिशर्स, औरंगाबाद.
15. सतिश सिंह (२०१७), वित्तीय समावेशन मे सामाजिक बदलाव, कुरुक्षेत्र मासिक न्यु दिल्ली.
16. अर्जुनराम मेघवाल (२०१७),“उभरते भारत मे वित्तीय समावेशन” पत्र सुचना कार्यालय, भारत सरकार.
17. सदा बिहारी साहू (२०१७), वित्तीय समावेशन और प्रधानमंत्री जन धन योजना, संकल्प मासिक लखनौ.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

With Effect From 2018-19

B.A. Third Year

ECONOMICS

SEMESTER – VI

HISTORY OF ECONOMIC THOUGHTS -II (Optional)

DSE – ECO - II

Credits: 03

Periods: 55

Marks: 75

Marks: 75 =Theory(ESE) 40 + Internal (CA) 35

Course outline:

In this course a study and analysis of eastern economic thoughts is made. Ancient thoughts and modern thoughts are also analyzed in the course. Koutilya's thoughts express the prosperity of ancient Indian Economy. The course also emphasizes the need of contemporary economic thoughts of Dadabhai Nauroji, M.Phule, Rajarshri Shahu, Dr Babasaheb Ambedkar, Yashwantrao Chavan, Shankarrao Chavan etc.

The course also provides the economic thoughts of today's most talked about economists like Nobel winners Dr. Amartya Sen and Prof. Mahammad Yunus. The course also gives the direction of the economic way the world has taken.

Course Objectives:

1. To study the economic analysis of Indian Economic thinkers.
2. To study the need of agricultural thought in the present situation.
3. To study the modern economic thoughts.
4. To study the political implementation of economic principles.

Course Utility:

1. Agricultural Entrepreneurship will be adopted by pupils.
2. Students will get knowledge of the exploitation of Indian Economy in the British rule.
3. Students will know how much the political Leadership is successful in solving the economic problems of the society.
4. The students will know the importance of Eastern Economic Ideas on the world level.

Course Content:

Unit-I Ancient Economic Thoughts :

Periods 10

Koutilya- Ideas on wealth & Agriculture. Role of Government in Economic development & social welfare.

Unit-II Modern Economic Thoughts :

Periods 23

- 2.1 Dadabhai Naoroji- Drain Theory and views on measurement of Indian National Income.
- 2.2 Mahatma Phule- views on Agriculture.
- 2.3 Rajarshi shahu- Main economic ideas
- 2.4 Dr. Babasahed Ambedkar- Problem of Indian Rupee & Thoughts on Agriculture.

Unit-III Recent Economic Thoughts :

Periods 22

- 3.1 Yeshwantrao Chavan- Main Economic Ideas.
- 3.2 Shankarrao Chavan- Main Economic Ideas.
- 3.3 Amartya Sen- Poverty & Welfare.
- 3.4 Mahammad Yunus- views on micro credit and Grameen Bank.

Books Recommended :

1. Black Hours R. (1985); A History of Modern Economic Analysis; Basil Blackwell Oxford.
2. Dr. S.M. Desai, Development of economic thoughts.
3. Mahammad Yunus, Banker to the poor.
4. Dadabhai Naoroji, Poverty & unbritis rule in India
5. डॉ. जयसिंगराव पवार, राजश्री शाहु महाराज
6. म. ज्योतीराव फुले, शेतक-यांचा आसुड
7. जे. एफ. पाटील, आर्थिक विचारांचा इतिहास
8. प्रा. रायखेलकर, डॉ. दामाजी, आर्थिक विचारांचा इतिहास
9. अग्रवाल कमलेश, कौटिल्य अर्थशास्त्र एवं शुक्रनितीकी राज्यव्यवस्थाएँ (२००८)- राधा पब्लिकेशन्स नवी दिल्ली.
10. प्रा. र. पं. कंगले, कौटिल्य अर्थशास्त्र (सटीप मराठी भाषांतर) (२०११) - महाराष्ट्र राज्य साहित्य संस्कृती मंडळ
11. भा यविधाता - यशवंतराव चव्हा ांचे आधुनि महाराष्ट्राच्या जड ाघड ितील यो ादान, संपाद प्राचार्य डॉ.आर.टी. बेंद्रे, प्रा.एच.पी. दम, न्यू मॅन पब्लि ेशन.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

With Effect From 2018-19

B.A. Third Year

ECONOMICS

SEMESTER – VI

MATHEMATICAL ECONOMICS -II (Optional)

DSE – ECO - II

Credits: 03

Periods: 55

Marks: 75

Marks : 75 =Theory(ESE) 40 + Internal (CA) 35

Course Outline :

The courses on microeconomic theory, macroeconomic theory, statistics and econometrics set out in this syllabus. In this course, particular economic models are not the ends, but the means for illustrating the method of applying mathematical techniques to economic theory in general. The level of sophistication at which the material is to be taught is indicated by the contents of the prescribed textbook.

Course Objectives :

1. To transmit the body of basic mathematics that enables the study of economic theory at the undergraduate level.
2. To facilitate understanding of the basic concepts of Economics with the help of Mathematics.
3. To encourage students to analyse economic theories by mathematical methods.

Course Utility :

The paper is useful for the students for illustrating concepts of economics by mathematical techniques. It is also helpful to understand more advanced branches of economics like econometrics, quantitative techniques etc.

Course Content:

Unit-I	Theory of Consumer Behavior :	Periods 20
1.1	Utility function	
1.2	Cardinal utility function	
1.3	Ordinal utility function	
1.4	Estimation of price elasticity of demand	
Unit-II	Theory of Production :	Periods 15
2.1	Production function	
2.2	Cobb-Douglas production function and its properties	
2.3	Optimum combination of factors	
2.4	Concepts of cost and revenue functions and their interrelationship	

Unit-III	Product Pricing :	Periods 20
3.1	Price and output determination in perfect competition	
3.2	Price and output determination in Monopoly	
3.3	Monopoly power	
3.4	Linear programming – assumptions, formation of LPP, Solution by Graphical Method	

Books Recommended :

1. Allen, R.G.D. (1974), Mathematical Analysis for Economists, Macmillan Press and ELBS, London.
2. Chiang, A.C. (1986), Fundamental Methods of Mathematical Economics, McGraw Hill, New York.
3. Gupta, J. D., Gupta, P. K. And Man Mohan, Mathematics for Business and Economics, Tata McGraw-Hill Publishing Company, New Delhi
4. Henderson, J.M. and R.E. Quandt (1980), Microeconomic Theory : A Mathematical Approach, McGraw Hill, New Delhi.
5. Koutsoyiannis, A. (1979), Modern Microeconomics, (2nd Edition), Macmillan Press, London.
6. Mehta, B. C. And Madnani G. M. K, Mathematics for Economics, S. Chand Publication, New Delhi

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B.A. Third Year

ECONOMICS

SEMESTER – VI

QUANTITATIVE TECHNIQUES -II (Optional)

DSE – ECO - II

Credits: 03

Periods: 55

Marks: 75

Marks : 75 =Theory(ESE) 40+ Internal (CA) 35

Course outline:

The course has been framed by considering the importance of statistics in the present days. The student will get more knowledge about the techniques of statistics. This course is very beneficial for the research. The course provides practicability and is very important to stand firmly in the world level competition. The course provides main ideas like Time series analysis, Index Numbers, Skewness, Kurtosis and moments.

Course Objectives:

1. To study the index of cost of living.
2. To study the Price Index Number.
3. To create the awareness about coefficient of skewness among the students.

Course Utility:

1. Students will get knowledge about how the value of money is decided.
2. Students will study price differentiation between base year and current year.
3. Students will study the change in economic factors in course of times.
4. Students will study the economic & social trend with the help of moving average method.

Course Content:

Unit-I Analysis of skewness Kurtosis & Moments :

Periods 20

- 1.1 Meaning of Skewness
- 1.2 Measurement of coefficient of Skewness- Karl Pearson's method, Dr. Boullley's Method and Kelly's Method.
- 1.3 Meaning of Kurtosis.
- 1.4 Measurement of Kurtosis.
- 1.5 Meaning of Moments.
- 1.6 Measurement of Moments.

Unit-II Time Series Analysis :**Periods 20**

- 2.1 Meaning of time series.
- 2.2 Components of time series.
- 2.3 Importance's of time series.
- 2.4 Measurement of secular Trend.
 - i) Graphical method.
 - ii) Semi Average method
 - iii) Moving Average method
 - iv) Least square method.

Unit-III Index Number :**Periods 15**

- 3.1 Construct the weighted Index Number by Average of Relative Prices.
- 3.2 Consumer Price Index Number or cost of living Index Number-Meaning and Utility.
- 3.3 Consumer Price Index Number's Construction method- Family Budget Method.

Books Recommended :

1. Alien, R. G. D. (1974); Mathematical Analysis for Economists, Macmillan Press London.
2. Gupta, S. C. and Kapoor V. K. (1993) Applied general statistics; Prentice Hall; New Delhi.
3. Chiang, A. C. (1986); Fundamental Methods of Mathematical Economics; (3rd Edition); McGraw Hill; New Delhi.
4. Monga, G. S. (1972); Mathematical and Statistics for economists; Vikas Publishing House; New Delhi.
5. Speigal, M. R. (1972); Theory and Problems of Statistics: McGraw Hill Book; London.
6. S. P., Gupta: 'Statistical Methods'; Sultun Chand and Sons: New Delhi.
7. Pillai and Bagavathi: Statistics; S. Chand and Company Ltd.; New Delhi.
8. प्रा. राम देशमुख, मुलभूत सांयिी
9. डॉ.देश र, डॉ.देशपांडे, सांयिी पध्दती
10. डॉ.विश्वास दम, सांयिी पध्दती

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ECONOMICS

SEMESTER – VI

INTERNATIONAL ECONOMICS (Optional)

DSE – ECO - II

Credits: 03

Periods: 55

Marks: 75

Marks : 75 =Theory(ESE) 40+ Internal (CA) 35

Course Outline:

An introduction to major issues in international trade and finance as well as the conceptual frameworks for understanding these issues.

Course Objective:

1. To know the principle of comparative advantage theory.
2. To know the balance of payments accounting and the valuation effect.
3. To know the international financial institutions.
4. The policy tools available to government that can be applied to international trade.

Course Utility :

International Economics is an exciting and dynamic subject that equips students with the tools which to tackle important real world issues in this age of globalization and financial integration.

Course Content :

Unit I – Nature of International Economics and Trade : Periods 20

- 1.1 Meaning and salient features of International Economics and Trade.
- 1.2 Difference between Domestic Trade and International Trade.
- 1.3 Advantages and Disadvantages of International Trade.
- 1.4 Theories of International Trade – Theory of Comparative Cost.

Unit II - Balance of Trade and Balance of Payments: Periods 20

- 2.1 Meaning and Features of Balance of Trade and Balance of Payments.
- 2.2 Structure of Balance of Payments, Equilibrium and Disequilibrium in the Balance of Payments, Importance of Balance of Payments.
- 2.3 Growth and Structure of India's Foreign Trade since 1991, Foreign Trade Policy 2009-2014.

Unit III – International Institutions:**Periods 20**

- 3.1 International Monetary Fund.
- 3.2 World Bank.
- 3.3 Asian Development Bank.
- 3.4 BRICS Bank.

Books Recommended :

1. Kindleberger C.P.(1973) International Economics, R.D. Irwin, Homewood.
2. Roy P.N. (1986), International Trade Theory and Practice New Age International Publishers, New Delhi.
3. Chacholiades M., (1990), International Trade : Theory and Policy, McGraw Hill, Kogakusha Japan.
4. Soderstone and Reed (1994), International Economics Macmillan Press Ltd London.
5. Datt R. and K.P.M. Sundaram (2014), Indian Economy S.Chand and Co.Ltd; New Delhi.
6. Misra S.K. and V.K. Puri (2014), Indian Economy its Development Experience, Himalaya Publishing House Mumbai.
7. एस.व्ही. ढमढेरे (2015), आंतरराष्ट्रीय अर्थशात्र, डायमंड पब्लिं शन्स, पुणे
8. जी.एन. झामरे (2013), आंतरराष्ट्रीय व्यापार आर्ी वित्त, पिम्पळापुरे पब्लिं शन्स, नाापूर
9. एम.एल. झिंान (2008), आंतरराष्ट्रीय अर्थशात्र, नवी दिल्ली .

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

With Effect From 2018-19

B.A. Third Year

ECONOMICS

SEMESTER – VI

PUBLIC FINANCE -GE – ECO - II (Compulsory)

Credits: 03

Periods: 55

Marks: 75

Marks : 75 =Theory(ESE) 40 + Internal (CA) 35

Course Outline :

This course discusses the financial aspect of Indian Economy hence this Paper is Next part of Indian Economy paper. The course covers different concepts of public finance i.e. Public finance, Fiscal Policy, Budget & Deficits.

The paper includes explanation of Public Revenue & Public Expenditure, Hence students will understand the imbalance between Public Revenue & Public Expenditure. It will clarify the concept of deficit. This Paper also discusses Centre & State financial relations in India. It has been extended to the overview of recent finance commission.

Course Objectives :

The specific objectives of the course are -

1. To introduce financial aspect of Indian Economy.
2. To discuss various concepts of public finance.
3. To analyze tax system of Indian Economy.
4. To know more about imbalance between public revenue and public expenditure.
5. To discuss centre and state financial relations in India.

Course Utility :

1. Student will able to analyze different concept of public finance.
2. The student will understand the imbalance between public revenue and public expenditure.
3. The students will suggest various measures to decrease deficit.
4. The student will be able to evaluate working of recent finance commission.

Course Content :

Periods-20

Unit-I Public Finance and Budget :

- 1.1 Public Finance - Meaning, Nature, Scope.
- 1.2 Fiscal Policy – Concept, Objectives and instruments.
- 1.3 Budget – Meaning, Types and Importance.

Unit-II Public Revenue and Expenditure :

Periods-20

- 2.1 Sources of Public Revenue - Union and States.
- 2.2 Taxation - Concept- (Impact of Tax, Shifting of Tax & Incidence of Tax),
Types of Taxes in India, Goods and Services Taxes
- 2.3 Public Debt – Sources of Public Debt.
- 2.4 Public Expenditure – Components and causes of increasing public
expenditure.
- 2.5 Deficit Financing – Components and causes of increasing deficits.

Unit- III Federal Finance :

Periods-15

- 3.1 Centre - State Financial Relations in India – Fiscal imbalance
- 3.2 Functions of Finance Commission
- 3.3 Overview of Recent finance Commission. (Resource transfer from Union to
States

Books Recommended :

1. Buchanan J.M. (1970), The Public Finance, Richard D. Irwan, Homewood.
2. Atkinson A.B. and J.E. Silitz (1980), Lectures on Public Economics, Tata
MacGraw Hill, New Delhi.
3. Singh S.K. (1986) Public Finance in Developed and Developing Countries,
S.Chand and Company Ltd. New Delhi.
4. Richard A. Musgrave (1989), Public Finance in theory and practice MacGraw
Hill Book Company, New York.
5. Jha H. (1998), Modern Public Economics, Routledge, London.
6. Mithani D.M. (1997) Money, Banking, International Trade and Public
Finance (10th Edition), Himalaya Publishing House, Mumbai
7. Misra & Puri (2012), Indian Economy (30th Edition) Himalaya Publishing
House, Mumbai.

8. Dr. Tyagi B.P., Public Finance, Jai Prakash Nath Pub. Meerat (UP)
9. Mithani D.M. Principles of Public Finance and Fiscal Policy Himalaya Publishing House, New Delhi.
10. Gaurav Datt & Ashwini Mahajan, Datt Sundram's Indian Economy; S.Chand and Sons Co.Ltd;New Delhi.
11. Ashuthosh Raravikar, Fiscal Deficit and Inflation in India, Macmillan India Ltd, New Delhi.
12. Singh S.k., Public Finance in Theory & Practise, S.Chand and Sons Company Ltd; New Delhi.
13. Bhatia H.L. Public finance. Vikas Publishilg House Pvt.Ltd,Delhi.
14. जे. एफ. पाटील, सार्वजनिक अर्थशास्त्र, फडके प्रकाशन, कोल्हापुर.
15. रंजन कोळंबे, भारतीय अर्थव्यवस्था, भागीरथ प्रकाशन, पुणे. 2017-18.
16. विरिजि. देसले, स्पर्धा परीक्षा संपूर्ण अर्थशास्त्र, दीपस्तंभ प्रकाशन, जळगाव.
17. प्रतियोगिता दर्पण, भारतीय अर्थव्यवस्था, हिन्दी मासिक, आग्रा.
18. क्रॉनिकल, भारतीय अर्थव्यवस्था, (हिन्दी/Eng), Chronicle Publication, Noida.
19. सु.रा.ओझरकर,राजस्व, विद्या प्रकाशन, नागपूर.
20. सुर्यकांत पवार (२०१४) भारतीय अर्थव्यवस्था,स्वयंदिप प्रकाशन, पूणे.
21. गौरव दत्त, आश्विनी महाजन, दत्त एवं सुन्दरम भारतीय अर्थव्यवस्था, ए. चन्द एंड कंपनी लि., नई दिल्ली.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

With Effect From 2018-19

B.A. Third Year

ECONOMICS

SEMESTER – VI

SKILL ENHANCEMENT COURSE

ENTREPRENEURSHIP DEVELOPMENT- SEC-IV

Credits: 02

Periods: 45

Marks: 50

Marks: 50 =(CA) 25 + (ESE) 25	
Entrepreneurship Development	
<p>Course outline:</p> <p>The course is designed to provide the knowledge, skills and attitudes in entrepreneurship development that will meet the needs of a developing economy. On completion of this syllabus the students will gain knowledge and comprehension for the development and application of ideas for entrepreneurship.</p> <p>Course Objectives:</p> <p>The Specific objective of the course is:</p> <ul style="list-style-type: none">✓ Acquiring entrepreneurship spirit and resourcefulness.✓ Familiarization with various uses of human resource for earning dignified means of living.✓ Understanding the concept and process of entrepreneurship- its contribution and role in the growth and development of individuals and the nation.✓ Acquiring entrepreneurial quality, competency and motivation.✓ Learning the process and skills of creation and management of entrepreneurial venture. <p>Course Utility :</p> <p>On completion of the course, the student shall be able to :</p> <ul style="list-style-type: none">✓ Understand the concept of entrepreneurship and its functions. The student will also be able to describe the process of entrepreneurship.✓ Explain the competencies of an entrepreneur.✓ Understand the meaning and ways of generating ideas and able to prepare a business plan.✓ Understand the reasons for success and failure of a business plan.✓ Identify the various support structure available for promoting entrepreneurship	

	Course Content :	Periods
Unit: I	Entrepreneurship: Introduction : <ul style="list-style-type: none"> • Entrepreneurship- Concept, Process • Types of Entrepreneurs, Competencies and Characteristics; Values, Attitudes and Motivation of an entrepreneur. • Risk, Innovations and Entrepreneurial Ventures, The role of technology/ social media and Entrepreneurial Ventures 	10
Unit: II	Entrepreneurship Journey : <ul style="list-style-type: none"> • Generation of Ideas. • Market Survey: Concept, Importance and Process • Business Plan Preparation • Resource Mobilization • Execution of Business Plan • Marketing • Income Statement, Cash flow Projections • Role of Family and Government in the growth of an entrepreneur. • Challenges faced by women in Entrepreneurship. 	10
Unit: III	Case Studies of Selected Indian Entrepreneurs : <ul style="list-style-type: none"> • N.R. Narayan Murthy • B.B. Thombre – Natural Sugar Group, Osmanabad • Hanumant Gaikwad – B.V. Group, Satara • Prakash Rathi – Paper Mill, Aurangabad • Ram Bhogale – Nirlep, Aurangabad 	10
	Skill Development Activities (Any Five of the following) <ol style="list-style-type: none"> 1. Prepare a chart showing the process of setting up a business. 2. Prepare a business model/plan in the interested business. 3. Conduct a structured interview with successful entrepreneur in your area/town. 4. Visit to the District Industry Centre (DIC) and submit the report. 5. Learn to earn in the college annual gathering function or any other day(only one day) and submit report. 6. Prepare a report on the fixed cost, variable cost and breakeven point in the interested business venture. 7. Visit to a business venture and prepare an income statement and cash flow projection of the business. 8. Work for a day with the entrepreneur and prepare report the learning. 9. Take and submit a structured interview of your parents to know their views if you start a venture. 10. Write a report on the successful entrepreneur from your area. 11. Report on the use social media for your business development. 	15

Books Recommended :

1. Business Maharajas, Gita Piramal, Penguin India, 2011
2. Business Legends, Gita Piramal, Penguin India, 2010
3. Entrepreneurship and Small Business Management, C.B. Gupta and S.S. Khanka, Sultan Chand Publications, 2012
4. Entrepreneurship Development, Taneja and Gupta, Galgotia Publishing Company, 2nd ed. 2012
5. India Inc. How India's Top Ten Entrepreneurs are Winning Globally, Vikas Pota, Nicholas Brealey publishing, 2010
6. I Too Had A Dream, Verghese Kurien, Lotus, 2005
7. How Entrepreneurs use Social Networks in their Business by Arman UdD owl https://stud.epsilon.slu.se/3300/1/Dowla_a_111003.pdf

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स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड— ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

Established on 17th September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



ACADEMIC (1-BOARD OF STUDIES) SECTION

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मानवविज्ञान विद्याशाखेतील पदवी
स्तरावरील तृतीय वर्षाचे CBCS Pattern
नुसारचे अभ्यासक्रम शैक्षणिक वर्ष
२०१८-१९ पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक १४ जून २०१८ रोजी संपन्न झालेल्या ४१व्या मा. विद्या परिषद बैठकीतील विषय क्र.११/४१-२०१८ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील तृतीय वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१८-१९ पासून लागू करण्यात येत आहेत.

- १) इंग्रजी
- २) हिंदी
- ३) कन्नड
- ४) मराठी
- ५) पाली
- ६) संस्कृत
- ७) उर्दू
- ८) अर्थशास्त्र
- ९) भूगोल
- १०) इतिहास
- ११) सैनिकशास्त्र
- १२) तत्त्वज्ञान
- १३) राज्यशास्त्र
- १४) लोकप्रशासन
- १५) समाजशास्त्र

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदवी-सीबीसीएस अभ्यासक्रम/
२०१८-१९/२५२

दिनांक : २५.०६.२०१८.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, यू.जी.सी. कक्ष, प्रस्तुत विद्यापीठ.

स्वाक्षरित /—

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग

**Syllabus for Third Year – (Semester + CBCS Pattern Structure)
Skill Enhancement Course**

Semester	Paper /course code	Name of the course	Lectures per week	Total Periods	Internal Evaluation (C A)	Marks of the semester (E S E)	Total Marks	Credits
V	SEC-ENG- III	Life Skills -I	03	45	25	25	50	2
VI	SEC-ENG- IV	Life Skills -II	03	45	25	25	50	2

Optional English

Semester	Paper /course code	Name of the course	Lectures per week	Total Periods	Internal Evaluation (C A)	Marks of the semester (E S E)	Total Marks	Credits
V	DSE-ENG- I	Literary Theory and Criticism(A) Introduction to Literary Criticism	04	55	35	40	75	3
VI	GE-ENG- I	Modern English Structure(A) Introduction to English Speech Sounds	04	55	35	40	75	3
V	DSE-ENG- II	Literary Theory and Criticism (B) Introduction to Literary Theory	04	55	35	40	75	3
VI	GE-ENG-II	Modern English Structure(B) Introduction to English Grammar	04	55	35	40	75	3

DSE I - Semester V

Title of the course: Literary Theory and Criticism (A) Introduction to Literary Criticism

Course/Paper code: DSE-ENG- I

Marks 75 (ESE 40 + CA 35) Credits -3

Salient features of the course:

- 1) The knowledge about classical masters of criticism is disseminated
- 2) Critical ability to read texts in the light of past theories is introduced

Utility of the Course:

- 1) The learners would develop a critical ability to judge literary texts
- 2) Critical insight into the past theorists would be developed

Objectives of the Course:

- 1) To introduce the Greek and Roman literary critics to the learners
- 2) To acquaint the learners with the English literary critics and criticism
- 3) To understand the texts of major critics
- 4) To identify and understand the literary terms, phrases and concepts in English related with the literary theories and criticism

Prerequisites:

- 1) Handouts, worksheets based on prescribed texts
- 2) Student lists and progress charts for monitoring

Syllabus:

Unit I - Greek & Roman Masters: 1) Plato 2) Aristotle 3) Horace 4) Longinus

Unit II - English Criticism: 1) Philip Sydney 2) Dr. Samuel Johnson
3) William Wordsworth 4) I.A. Richards

Unit III - Critical Texts: 1) S T Coleridge : "Biographia Literaria"
2) T S Eliot : "Tradition & Individual Talent"

Unit IV – Literary Terms & Concepts

1. Act 2. Allegory 3. Fable 4. Parable 5. Allusion 6. Ambiguity 7. Antithesis
8. Blank Verse 9. Burlesque 10. Parody 11. Chorus 12. Lampoon 13. Flat Character
14. Round Character 15. Comedy 16. Farce 17. Tragedy 18. Catharsis 19. Hamartia
20. Soliloquy 21. Aside 22. Melodrama 23. Dramatic Irony 24. Metaphysical Conceit
25. Confessional Poetry 26. Connotation and Denotation . 27. Lyric 28. Sonnet 29. Satire
30. Onomatopoeia 31. Elegy 32. Dirge 33. Ode 34. Ballad 35. Epic 36. Mock Epic
37. Heroic Couplet 38. Narcissism 39. Three Unities 40. Poetic Justice

Question Paper Pattern (Marks 40)

- | | |
|---|-----------|
| Q.1 Essay type question (1/2) (From Unit I Only) | - 8 marks |
| Q.2 Essay type question (1/2) (From Unit II Only) | - 8 marks |
| Q.3 Essay type question (1/2) (From Unit III Only) | - 8 marks |
| Q.4 Define & explain the following terms & concepts
Any 4 out of 6 (From Unit IV Only) | - 8 marks |
| Q.5 Short-notes any 2/4 from I to IV Units | - 8 marks |

Internal Assessment: 35 marks

Two class tests: 20 marks

Assignment: 15 marks

Prescribed Textbooks:

- 1) B Prasad – *An Introduction to English Criticism*
- 2) Enright & Chickera – *English Critical Texts*
- 3) M H Abrams – *A Glossary of Literary Terms*

GE I –Semester V

Title of the course: Modern English Structure (A) Introduction to English Speech Sounds

Course/Paper code: GE-ENG- I

Marks 75 (ESE 40 + CA 35) Credits -3

Salient features of the course

- 1) The practical aspects of the English language are demonstrated
- 2) Ability to comprehend and reproduce Standard English is introduced

Utility of the Course:

- 1) The learners would be able to understand the system of speech with English sounds
- 2) The ability to understand and reproduce standard patterns of speech is facilitated

Objectives:

- 1) To acquaint the learners with the English speech sounds, syllable and its structure
- 2) To study the phonemic transcription and consonant clusters
- 3) To understand the word accent and intonation in English speech
- 4) To identify the dialects, idiolects and varieties of British English

Prerequisites of the course

- 1) Charts, diagrams, worksheets based on the course content
- 2) The use of Language laboratory and audio-visual aids would be additionally beneficial to impart instructions

Syllabus:

- 1) The Organs of Speech
- 2) Description and Classification of Speech Sounds
- 3) Description and Classification of Consonants
- 4) Description and Classification of Vowels
- 5) Phonetic Transcription
- 6) The Phoneme
- 7) The Syllable
- 8) Various Accents of English
- 9) Sounds of English – Vowels
- 10) Sounds of English – Consonants
- 11) Phoneme Sequences and Consonant Clusters in English
- 12) Word Accent
- 13) Accent and Rhythm in Connected Speech
- 14) Intonation
- 15) Conversational Passages for Practice

Question Paper Pattern (Marks 40)

- | | |
|--|------------|
| Q.1. Phonemic transcription and giving three term label to each sound of any one of the two words. | : 05 Marks |
| Q. 2. Phonemic transcription of any five of the given words. | : 10 Marks |
| Q. 3. Marking stress on any five of the given words. | : 05 Marks |
| Q. 4. Dividing any five of the given sentences into tone groups and marking stress and intonation. | : 10 marks |
| Q.5. Short notes (any two) | :10 marks |

Internal Assessment: 35 marks

Two class tests : 20 marks

Assignment : 15 marks

Books Recommended:

1) T Balsubramanium : *A Textbook of Phonetics for Indian Students*

2) Sethi & Dhamija : *A Course in Phonetics and Spoken English*

3) J D O'Connor : *Phonetics*

DSE II Semester VI

Title of the course: Literary Theory and Criticism (B) Introduction to Literary Theory

Course/Paper code: DSE-ENG- II

Marks 75 (ESE 40 + CA 35) Credits -3

Salient features of the course:

- 1) The knowledge about contemporary theories of criticism is disseminated
- 2) Critical ability to carry out practical criticism is introduced

Utility of the Course:

- 1) The learners would develop ability to analyse literary texts according to the rules of prosody
- 2) Critical insight into the contemporary theories would be developed

Objectives of the Course:

- 1) To introduce the prominent literary theories to the learners
- 2) To acquaint the learners with the global critical schools
- 3) To understand in depth the major literary theories
- 4) To enable the learners for undertaking practical criticism

Prerequisites:

- 1) Handouts, worksheets based on prescribed texts
- 2) Student lists and progress charts for monitoring progress

Syllabus:

Unit I

1. 'Theory before Theory' by Peter Barry
2. Structuralism
3. Psychoanalytical Criticism

Unit II

1. Marxist Criticism
2. Deconstruction
3. Feminism

Unit III

1. Post-Colonial criticism
2. Multiculturalism
3. Eco-Criticism

Unit IV Practical Criticism

- 1) Scansion of the poem given in the book by Sethuraman
- 2) Applied Metrics (Metre, Rhyme-scheme, Rhythm & stanza form)
- 3) Imagery & symbols

Question Paper Pattern (Marks 40)

- Q.1 Essay type Question 1/2 from Unit I – 8 marks
- Q.2 Essay type Question 1/2 from Unit II – 8 marks
- Q.3 Essay type Question 1/2 from Unit III – 8 marks
- Q.4 Essay type Question 1/2 from Unit IV – 8 marks
- Q.5 Short-notes 2/4 from I to IV Units – 8 marks

Internal Assessment: 35 marks

Two class tests: 20 marks

Assignment: 15 marks

Prescribed Texts

Theory before Theory by Peter Barry

Practical Criticism by V. S. Sethuraman

GE II –Semester VI

Title of the course: Modern English Structure (A) Introduction to English Grammar

Course/Paper code: GE-ENG- II

Marks 75 (ESE 40 + CA 35) Credits -3

Salient feature of the Course

- 1) The course induces an understanding of the mechanism of the English Language
- 2) The notion of grammatical correctness in practical usage is highlighted

Utility of the course:

- 1) Learners are enabled to understand the logics and practices in the field of English grammar
- 2) The foundational structure of English grammar is explained
- 3) Learners would be able to use the language with grammatical correctness

Objectives:

- 1) To acquaint the learners with the English Word Classes.
- 2) To study word structures and affixes.
- 3) To study the basic clauses and phrases in English
- 4) To understand the sentence structure and forms and meaning
- 5) To identify the common errors and ambiguities in English sentences
- 6) To comprehend the varieties of English language and its dialects

Prerequisites of the course:

- 1) Charts, diagrams to explain grammatical concepts
- 2) Worksheets for practical usage

Syllabus:

- 1) Word Classes
Noun, Adjective, Verb, Adverb
Pronoun, Preposition, Conjunction, Interjection
- 2) Morphology- Affixes, derivational & inflectional suffixes
- 3) Basic Clauses- Noun clause, Adjective clause, Adverb clause, Relative clause
- 4) Phrases – Noun Phrase, Verb Phrase, Adjective Phrase, Adverb Phrase, Prepositional Phrase
- 5) Sentence Structure- Subordination, Coordination, Clause form & function
- 6) Common Errors
- 7) Form & Meaning
- 8) Ambiguity- Lexical Ambiguity & Structural Ambiguity
- 9) Varieties of English
 - a) Spoken & Written English
 - b) Dialects- Indian, American, British

Prescribed textbooks:

Quirk & Greenbaum- *A University Grammar*

David Crystal – *Redefining Grammar with David Crystal*

Question Paper Pattern

- Q.1 A) Identifying and analyzing phrases (any two). : 4 marks
B) Acceptability (any two) :4 marks
- Q.2 A) Identifying and analyzing subordinate clauses in terms of form and function (any two) :4 marks
B) Difference in form and meaning (any two) :4 marks
- Q.3 A) Analysing sentences into their constituent parts. (any two) :4 marks
B) Combining pair of sentences to form a single sentence (any two) :4 marks
- Q.4 A) Explaining ambiguity (any two) :4 marks
B) Morphological analysis of words (any two) :4 marks
- Q.5 Short notes (any two) :8 marks

Internal Assessment: 35 marks

Two class tests: 20 marks

Assignment: 15 marks

Syllabus For Skill Enhancement Course (SEC) - Third Year

Title of the course: Life Skills –I- Semester V

Course/Paper code: SEC-ENG- III

Credits: 02 (Marks: 50) Periods: 45

(ESE – 25 Marks) (CA- 25 Marks)

Salient Features of the Course

1. The course prepares the learners for a smooth entry in to the world of work
2. Self-awareness and social awareness are developed
3. Skill necessary for digital lifestyle are introduced

Utility of the Course:

- 1) Developing personal and social skills in the learners
- 2) Creating gender awareness
- 3) Developing skills for individual and group activities

Objectives:

- 1) To assist the learners for a smooth transition from student life into the world of work.
- 2) To develop the skills necessary for understanding oneself and the sociocultural group.
- 3) To help the learners choose the best ways of utilizing their time, efforts and mental energies.
- 4) To provide training in skills required to find, understand, evaluate, create, and communicate digital information in a wide variety of formats.
- 5) To make the learners able to use diverse technologies appropriately and effectively to retrieve information, interpret results, and judge the quality of that information.

Prerequisites for the Course:

1. Handouts, course material and activity sheets
2. Progress chart of learners for evaluation of their performance.
3. The following facilities would be of additional help:
Computer System with internet connectivity, LCD Projector and Screen

Unit I: Acquisition of Personal and Social Skills

- 1) Critical and Lateral thinking
- 2) Civic skills and social responsibility
- 3) Self -awareness, mindfulness and self-esteem:
 - a) Decision making
 - b) Time management
 - c) Goal setting
- 4) Gender Sensitization

UNIT: II-- Continuous Assessment (CA) [Marks: 25] Periods 20

Note: Continuous Assessment may be done on the basis of following criteria

1. Interview, Seminar, Topic Presentation during the semester for 05 Marks each. [15 Marks]
2. One (1) Assignment for 10 Marks.

(Continuous assessment can be carried on the basis of the text-book prescribed for the syllabus - *An Introduction to Life Skills*)

Syllabus For Skill Enhancement Course (SEC) - Third Year

Title of the course: Life Skills -II - Semester VI

Course/Paper code: SEC-ENG- IV

Credits: 02(Marks: 50) Periods: 45

(ESE – 25 Marks and CA- 25 Marks)

Unit I- Acquiring Digital Literacy:

- 1) Importance of Digital Literacy
- 2) Online Transactions and Search Skills
- 3) I C T tools:
 - a) Massive Open Online Courses (MOOC) and their utility
 - b) Generic tools
 - c) P2P Networking and its uses
- 4) Cyber security and Network Safety

UNIT: II-- Continuous Assessment (CA) [Marks: 25] Periods 20

Note: Continuous Assessment may be done on the basis of following criteria

1. Interview, Seminar, and Topic Presentation during the semester for 05 Marks each. [15 Marks]
2. One Assignment for 10 Marks.

(Continuous assessment can be carried on the basis of textual assignment given in the text-book prescribed for the syllabus -*An Introduction to Life Skills*)

Question paper pattern

**End Semester examination for Semester V & VI will be conducted annually
(25+25=50 Marks)**

Question Paper Pattern: For Semester V & VI each-

- | | |
|--|-------------------|
| 1. Skill Work Report Submission | - 10 Marks |
| 2. Overall Skill Judgment | - 10 Marks |
| 3. Skill Work Presentation | - 05 Marks |

* * * * *



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड— ४३१६०६ (महाराष्ट्र)

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मानवविज्ञान विद्याशाखेतील पदवी
स्तरावरील तृतीय वर्षाचे CBCS Pattern
नुसारचे अभ्यासक्रम शैक्षणिक वर्ष
२०१८-१९ पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक १४ जून २०१८ रोजी संपन्न झालेल्या ४१व्या मा. विद्या परिषद बैठकीतील विषय क्र.११/४१-२०१८ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील तृतीय वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१८-१९ पासून लागू करण्यात येत आहेत.

- १) इंग्रजी
- २) हिंदी
- ३) कन्नड
- ४) मराठी
- ५) पाली
- ६) संस्कृत
- ७) उर्दू
- ८) अर्थशास्त्र
- ९) भूगोल
- १०) इतिहास
- ११) सैनिकशास्त्र
- १२) तत्त्वज्ञान
- १३) राज्यशास्त्र
- १४) लोकप्रशासन
- १५) समाजशास्त्र

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदवी-सीबीसीएस अभ्यासक्रम/
२०१८-१९/२५२

दिनांक : २५.०६.२०१८.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, यू.जी.सी. कक्ष, प्रस्तुत विद्यापीठ.

स्वाक्षरित /—

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग

**SWAMI RAMANAND TEERTH MARATHWADA
UNIVERSITY, NANDED**

SYLLABUS

GEOGRAPHY

B.A. THIRD YEAR

**SEMESTER PATTERN
(Choice Based Credit System)**

With Effect From: June, 2018

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Choice Based Credit System (CBCS) Course Structure

Subject-Geography

B.A. Third Year (New Pattern)

With effect from: June, 2018

Semester	Core Course	Paper No.	Name of the Paper	Lectures/ Week	Total No. of Lect.	CA	ESE	Total Marks	Credits
V	DSE GEOG-I	XIII	Development of Geographical Thought – Part- I OR Agricultural Geography	04	60	10	40	50	02
V	GE GEOG-I	XIV	Geography of India – Part- I	04	60	10	40	50	02
V&VI	DSE GEOG-II	XV	Practical Geography XV-Projections XVIII-Surveying	3+3 (Per Batch)	90 (45+45)	10	40	50	02
V	SEC	III	An Introduction to Research Methodology OR Watershed Management	03	45	25	25	50	02
Semester - V Total				17	255	55	145	200	08
VI	DSE GEOG-III	XVI	Development of Geographical Thought – Part II OR Political Geography	04	60	10	40	50	02
VI	GE GEOG-II	XVII	Geography of India – Part II	04	60	10	40	50	02
V&VI	DSE GEOG-IV	XVIII	Practical Geography XV-Statistical Methods XVIII-Application of Computer and GIS in Geography	3+3 (Per Batch)	90 (45+45)	10	40	50	02
VI	SEC	IV	Disaster Management OR Interpretation of Aerial Photography and Satellite Imagery	03	45	25	25	50	02
Semester – VI Total				17	255	55	145	200	08

(CC= Core Course, CA= Continuous Assessment (Internal), ESE= End Semester Examination).

Note:

1. *Total working days in a semester are 90*
2. *Total working weeks in a semester are 15*
3. *Continues Assessment for each paper = 10 Marks*
4. *End Semester Examination for each paper = 40 Marks*

INSTRUCTIONS:

1. Teaching workload shall be of four periods per week for each theory paper and six periods (03+03) per week for practical.
2. Strength of students for each practical batch shall not be more than 15 (fifteen).
3. Students shall not be allowed for practical examination without certified journal (Practical Book).
4. Total periods for each theory paper shall be 60 per semester.
5. Total periods for each practical paper of 50 marks shall be 90 per year per batch.
6. Practical examination will be held at the end of the academic year (May be in February/March for both paper i.e. paper no. XV and XVIII).
7. CA (Continuous Assessment) Pattern for each paper (including practical paper) - one test and one home assignment of 5 marks each.

B. A. Third Year
Semester-V
DSE GEOG-I, Paper No.-XIII
Development of Geographical Thought-Part-I

Marks: 50

Credits: 02

Periods: 60

Salient Features

1. The aim of this course is to introduce the students with development of geographical thoughts from ancient to modern times. To know the development of various branches of human and physical geography

Utility

1. To help students to know the evolution of geographical knowledge which helps them in analyzing, planning and prediction of various geographical aspects

Learning Objectives

1. To develop the skills among the students to imbibe the classical knowledge and its applicability in the present world
2. To know the contribution of geographers across the globe to the development of geography

Pre-requisites

1. Books, Maps, Globe, Models
 2. ICT
-

Unit-I A Brief History of Geographical Thought

20 Periods

1. Greek: Aristotle and Eratosthenes
2. Roman: Strabo and Ptolemy
3. Arab: Al-Biruni and Al- Idrisi
4. India: Aryabhat, Varhamir, Brahmgupta and Bhaskaracharya,

Unit-II Contribution of Modern Geographers

20 Periods

1. British: Halford John Mackinder and Sir Dudley Stamp
2. German: Alexander Von Humboldt and Carl Ritter
3. French: Vidal-de-la-Blache and Jean Brunches
4. American: W.M. Davis and Richard Hartshorne

Unit-III Major Concepts in Geography

20 Periods

1. Determinism
2. Possibilism
3. Neodeterminism

Suggested Reading:

- 1) Adhikari Sudeepta : Fundamentals of Geographic Thought-
Chaitanya Publishing House, Allahabad
(1972)
- 2) Dickinson, R.E. : The Makers of Modern Geography Routledge &
Keganpaul, London (1969)
- 3) Dixit R.D. (1999) : Development of Geographic Thought Longmans
India Limited. 1999.
- 4) Free Man. T.W. : Geography as Social Science, Harper
International Edition, Harper & Row Publishers, New
York (1965).
- 5) डॉ.कौशिक : भौगोलिक विचारधाराएँ एवं विधीतंत्र
- 6) डॉ.मामोरिया एवं जैन : भौगोलिक चिंतन एवं तीन दक्षिणी महाद्विप
- 7) डॉ.बी.जी.वेळापूरकर : भौगोलिक विचारधाराचा विकास
डॉ.के.बी.कनकुरे : संध्या प्रकाशन, उदगीर जि.लातूर
डॉ.एच.बी.राठोड
प्रा.वसंत उगाडे
- 8) डॉ.के.बी.कनकुरे : भौगोलिक संकल्पना, अरूणा प्रकाशन, लातूर
डॉ.मानकरी
संतोष मंगनाळे
- 9) सु.द.शिंदे : आधुनिक भूगोलाचा विकास
- 10) मोहन गुळवे : राजकीय भूगोल, कैलास पब्लिकेशन औरंगाबाद

B. A. Third Year
Semester-V
DSE GEOG-I, Paper No.-XIII
Agriculture Geography (Or Paper)

Marks: 50

Credits: 02

Periods: 60

Salient Features

1. The aim of this course is to introduce the students with knowledge of origin and evolution of agriculture in different parts of the world and their limitations

Utility

1. To know the various agricultural determinants, land capability and crop suitability in different parts of the world

Learning Objectives

1. To know the major agricultural issues in India and to develop strategy to solve them
2. To know the different agricultural theories and their applicability in the present times

Prerequisites

1. Books, Maps, Globe,
 2. ICT
-

Unit I Introduction

15 periods

1. Definition, nature and scope of agricultural geography
2. Approaches to study agricultural geography.
3. Origin and evolution of agriculture

Unit II Agricultural Determinants

15 periods

1. Determinants of Agricultural Landuse
2. Physical determinants
3. Socio-economic determinants
4. Technological determinants

Unit III Agricultural Regionalization and Theory

15 periods

1. Methods of agricultural regionalization, crop concentration, crop diversification, agricultural productivity.
2. Von-Thunen's Theory of agricultural location
3. Recent modification in Von-Thunen's model

Unit IV Major issues in Indian Agriculture

15 periods

1. Green revolution
2. White revolution
3. Environmental degradation

Suggested Reading:

- 1) Symons : Agricultural Geography
- 2) Morgan & Munton : Agricultural Geography
- 3) Mamoria C.B. : Geography of India
- 4) Noor Mohammad : Perspective in Agricultural Geography
- 5) Majid Husain : Agricultural Geography
- 6) Dr.Jainendra Kumar : Landuse Analysis
- 7) Patil B.A. : Horticulture
- 8) तिवारी सिंह : कृषी भूगोल, प्रयाग पुस्तक भवन, इलाहाबाद
- 9) चंद्रशेखर यादव : कृषी भूगोल, विश्वभारती पब्लिकेशन, नई दिल्ली
- 10) नेगी बी.एस. : संसाधन भूगोल, केदारनाथ-रामनाथ, नई दिल्ली
- 11) दाते -सौ.दाते : सुगम शेती भूविज्ञान
- 12) देशमुख पी.जी. : भारतीय फळझाडांची लागवड
- 13) सवदी-केचे : कृषी भू-विज्ञान
- 14) फुले सुरेश : कृषी भूगोल

B. A. Third Year
Semester-V
GE GEOG-I, Paper No.-XIV
Geography of India Part-I

Marks: 50

Credits: 02

Periods: 60

Salient Features

1. The aim of this course is to introduce the students with location and physical settings of India and to understand the significance of unity in the diversity
2. To acquaint the students with regional knowledge of India

Utility

1. To appreciate the regional diversity and to develop acclimatizing temperament among the students

Learning Objectives

1. To know the physical regions, climatic regions and natural resources of India
2. To bring awareness among the students for judicious and optimum use of natural resources and adherence to sustainable development

Pre-requisites

1. Books, Maps, Charts, Models
2. Field visits
3. ICT

Unit I Location and Physical Regions and Drainage

20 Periods

1. India in the context of south-east & south Asia
2. India a land of diversities; unity within diversity
3. Physical regions of India
4. Drainage systems of India

Unit II Climate and Climatic Regions

20 Periods

1. Regional and seasonal variations of climate
2. The monsoon, western disturbance, nor-westers
3. Climatic regions of India according to Koppen

Unit III Natural Resources

20 Periods

1. Soil types and their characteristics and distribution
2. Vegetation types and their distribution
3. Forests, water, minerals and power resources-the status of their use and need for conservation.

Suggested Readings:

1. Deshpande, C.D. : India : A Regional Interpretation, Northern Book Center, New Delhi 1992.
2. Farmer, B.H. : An introduction to South Asia Methuen, London, 1983.
3. Govt. of India : India-References Annual 2001, Pub.Div., New Delhi, 2001.
4. Govt. of India : National Atlas of India NATMO Publications, Calcutta.
5. Govt. of India : The Gazetteer of India, Vol.1 & 3 Publication Division, New Delhi, 1965.
6. Learmonth, A.T.A. : Man and Land of South Asia, Concept, New Delhi.
7. Mitra, A. : Levels of Regional Development in India-Census of India-Vol.2 (A) (1) & (2) New Delhi, 1987.
8. Routray, J.K. : Geography of Regional Disparity, Asian Institute of Technology, Bangkok, 1993.
9. Shafi, M. : Geography of South Asia- Mc Millan & Co. Calcutta, 2000.
10. Singh R.L. : Indian : A Regional Geography : National Geographical Society India, Varanasi, 1971.
11. Spate, OHK & Learmonth A.T.A. : India & Pakistan – Land People & Economy-Methuen & Co.London, 1967
12. Wadia, D.N. : Geography of India- McMillan & Co.London.
13. Sharma T.C. : Economic & Commercial Geography of India – Vikas Publication House, New Delhi
14. डॉ.एस.टी.शेटे : भारताचा भूगोल, अभिजीत प्रकाशन, लातूर
डॉ.के.बी.कनकुरे व इतर
15. केचे पांडुरंग : भारताचा भूगोल, पिंपळापूरे प्रकाशन, औरंगाबाद.

**B. A. Third Year
Semester-V & VI
DSE GEOG-II, Paper No.-XV
Practical Geography**

Marks: 50

Credits: 02

Periods: 45

Salient Features

1. The aim of this course is to introduce the students with knowledge of making of Projections
2. To know the characteristics and uses of different projections

Utility

1. To know the use of particular projection for making particular map

Learning Objectives

1. To know the skills of construction of projection and map making
2. To use different projections for the representation of different parts of the globe

Pre-requisites

1. Books, Maps, Globe
 2. Geometry box, ICT
-

Paper XV - Projections

Unit I Introduction

25 Periods

Projection, Definition, Classification and construction (By Graphical method only).

Properties and use of the following projections.

Unit II Zenithal Polar Gnomonic Projection

Zenithal Polar equal area Projection

Unit III Conical Projection with one Standard Parallel.

Bonne's Projection

Unit IV Cylindrical Equal area Projection

Mercator's Projection

Paper XVIII - Surveying

20 Periods

Unit I Chain-tape Survey-open and close traverse.

Unit II Plane table survey-intersection method-open and close traverse.

Unit III

1. Prismatic compass survey-open and close traverse.
2. Bowditch's method with correction of bearing.
3. Conversion of bearing. Whole circle bearing to Quadrant bearing & Vice versa.

Suggested Reading:

- 1) Sing and Singh : Mapwork and Practical Geography
- 2) Singh L. & Dutta P.K. : Elements of Practical Geography-
Kalyani Publishers, New Delhi 1979.
- 3) Hammod & Mc Gullah : Quantitative Techniques in Geography
- 4) Croxton & Cowden : Applied General Statistics
- 5) Sarkar, A. : Practical Geography – A Systematic
Approach – Orient Longman Calcutta,
1997.
- 6) Khan Z.A. : Text Book of Practical Geography
- 7) डॉ.नागतोंडे / डॉ.लांजेवार : नकाशाशास्त्र व प्रात्यक्षिक भूगोलशास्त्र, पिंपळापूरे अँड कं.
पब्लिशर्स, नागपूर.
- 8) महाजन वाय.आर. : सांख्यिकी, पिंपळापूरे प्रकाशन,नागपूर
- 9) डॉ.कनकूरे, डॉ.मानकरी/रमेश मुगावे : प्रात्यक्षिक भूगोल, अरूणा प्रकाशन, लातूर.
- 10) जे.पी. शर्मा : प्रात्यक्षिक भूगोल,
रस्तोगी प्रकाशन, मेरठ
- 11) हिरालाल यादव : प्रात्यक्षिक भूगोल

B. A. Third Year
Semester-V
SEC-III
An Introduction to Research Methodology

Marks: 50

Credits: 02

Periods: 45

Salient Features

1. The aim of this course is to introduce the students with basic nature of research methodology
2. To develop skills of research report writing

Utility

1. To enable students with the basic idea of data collection, analysis and interpretation skills

Learning Objectives

1. To develop the temperament among the students to study the subjects in a systematic and scientific way

Pre-requisites

1. Books, Maps, Charts
 2. Field survey and ICT
-

Unit-I Introduction

15 Periods

1. Definition, Nature, Scope and Significance of research and Types of Research
2. Geographical Enquiry

Unit-II Data Collection

15 Periods

1. Importance of data in research. Types and Sources of Data
2. Methods of Collection of Data: Primary and Secondary
3. Data Analysis and Data Representation Techniques: Statistical and Cartographic Techniques

Unit- III Structure and Preparation of Research Report

15 Periods

1. Selection of Topic, Statement of Problem, Review of Literature, Objectives, Methodology,
2. Data Collection and Analysis, Conclusion and Suggestions
3. Reference, Bibliography, Annexure

Suggested Reading:

1. Ghosh B. N. "Scientific Method and Social Research", Sterling Publishers Pvt. Ltd. 1987
2. Kothari, R C., "Research Methodology, Methods and Techniques", New Delhi: New Age International Publishers, 2012
3. William J. Doode and Paul K. Hatt., "Methods in Social Research" McGrawHill Book Company, 1981
4. डॉ. प्रदीप आगलद्रे, संशोधन पद्धतीशास्त्र व तंत्रे
5. डॉ नीलम धुरी, संशोधन पद्धती, फडके प्रकाशन, कोल्हापूर 2008
6. सदाकरहळे, संशोधन सिद्धांत आणि पद्धती

B. A. Third Year
Semester-V
SEC-III
Watershed Management (Or Paper)

Marks: 50

Credits: 02

Periods: 45

Salient features

1. Watershed management is need of the time. It is useful to conserve soil moisture, to recharge the aquifers, to control soil erosion, it acts as a drainage channel during heavy rains and allows percolation

Utility

1. It will help to increase agriculture land and agriculture produce, to conserve the wild life, grassland, forestry, to maintain environmental balance and to eradicate draught prone areas

Objectives

1. To manage and utilize the runoff water, to protect, conserve and improve the land of watershed, to moderate the floods peaks at down stream area, to rehabilitate the water supply schemes in rural areas and to create water balance sheet for rural area

Pre-requisites

1. Books
 2. Maps, Models,
 3. Field Visit and ICT
-

Unit I Introduction and Concept of Watershed Management

10 Periods

1. Definition, aims and objectives of watershed management
2. Need for watershed management.
3. Principles of watershed management.
4. Types and properties of watershed
5. Factors affecting on watershed management
6. Integrated and multidisciplinary approach for watershed management.

Unit II Soil Erosion and Control Measures

10 Periods

1. Definition and types of Soil erosion
2. Factors affecting on soil erosion
3. Measures to control erosion
 - a) Agronomical control erosion
 - b) Engineering control erosion

Unit III Techniques in Watershed Management

10 Periods

1. Grassland development
2. Gully plugs
3. Tree plantation
4. Contour bunding
5. Land leveling
6. Water conservation structures
7. Jalyukt shivar

Unit IV Water Harvesting, Water budgeting, Model Village and Schemes

15 Periods

1. Importance, significance and methods of Rainwater Harvesting
2. Importance, significance and methods of Ground water harvesting
3. Model Village
4. Water budgeting and funding
5. Schemes of central and state Government for watershed management
6. Visit- To watershed projects Rain water harvesting projects, Jalyukta shivar

Suggested Reading:

1. Allam, Gamal Ibrahim Y., Decision Support System for Integrated Watershed Management, Colorado State university, 1994.
2. American Society. Of Civil Engr., Watershed Management, American Soc. Of Civil Engineers, New York, 1975.
3. Black Peter E., Watershed Hydrology. Prentice Hall, London, 1991.
4. Michael A.M. Irrigation Engineering, Vikas Publishing House, 1992.
5. Murty, J.V.S. "Watershed Management", New Age Intl., New Delhi 1998.
6. Murthy, J.V.S., Watershed Management in India, Wiley Eastern, New Delhi, 1994.
7. Purandare, A.P., Jaiswal A.K., Watershed Development in India, NIRD, Hyderabad, 1995.
8. Vir Singh, Raj, Watershed Planning and Management, Yash Publishing House, Bikaner, 2000.
9. महाराष्ट्रातील जलसंपदा- प्रा. डॉ. एस.व्ही. ढमढेरे-डायमंड पब्लिकेशन,पुणे.
10. पाणलोट विकास विस्तार प्रकल्प -टी. एस. खुरपे/ शिवाजी ठोंबरे, कॉन्टिनेन्टल प्रकाशन, विजयानगर, पुणे.
11. पर्यावरणशास्त्र – (दूसरी आवृत्ती) ए.बी. सनदी, पी.एस. कोळेकर, निराली प्रकाशन,पुणे.

B. A. Third Year
Semester-VI
DSE GEOG-III, Paper No.-XVI
Development of Geographical Thought-Part-II

Marks: 50

Credits: 02

Periods: 60

Salient Features

1. The aim of this course is to introduce the students with concepts like region and spatial organization, and various approaches in the study of geography and need for models in geography

Utility

1. To enable students to study, understand and examine the existing concepts, approaches and models in geography and evolve with new concepts and approaches.

Learning Objectives

1. To develop the skills among the students to apply approaches and models of geography to the real world problems.
2. To know the contribution of geographers across the globe to the development of geographical concepts, theories and models,

Pre-requisites

1. Books, Maps, Globe,
 2. ICT
-

Unit I Concepts in geography

15 Periods

1. Concept of region
2. Concept of Spatial organization

Unit II Approaches in Geography

25 Periods

1. Systematic Approach
2. Regional Approach
3. System Approach
4. Quantitative Approach
5. Behavioral Approach
6. Radical Approach

Unit III Models in Geography

20 Periods

1. Models in Geography: Significance, need, features and general classification of models.

Suggested Reading:

- 1) Lawarence, G.R.P. : Cartographic Methods, Methuen London,1968.
- 2) Monkhouse, F.H. & Winkinson, H.r. : Maps and diagrams -, Methuen London,1994.
- 3) Rabinson, A.H. : Elements of Cartography-John Wiley and Sons U.S.A. 1995.
- 4) Archer, J.E. & Daltan, T.H. : The Fieldwork in Geography Batsford Limited London, 1968.
- 5) Steers, J.A. : Maps Projections, University of London Press, London.
- 6) डॉ.मामोरिया एवं जैन : भौगोलिक चिंतन एवं तीन दक्षिणी महाद्विप
- 7) डॉ.बी.जी.वेळापूरकर : भौगोलिक विचारधाराचा विकास
डॉ.के.बी.कनकुरे : संध्या प्रकाशन, उदगीर जि.लातूर
डॉ.एच.बी.राठोड
प्रा.वसंत उगाडे
- 8) डॉ.के.बी.कनकुरे : भौगोलिक संकल्पना, अरूणा प्रकाशन, लातूर
डॉ.मानकरी
संतोष मंगनाळे
- 9) सु.द.शिंदे : आधुनिक भूगोलाचा विकास
- 10) मोहन गुळवे : राजकीय भूगोल, कैलास पब्लिकेशन औरंगाबाद

B. A. Third Year
Semester-VI
DSE GEOG-III, Paper No.-XVI
Political Geography (Or Paper)

Marks: 50

Credits: 02

Periods: 60

Salient Features

1. The aim of this course is to introduce the students with knowledge of political geography, recent development and its significance in present scenario

Utility

1. To enable students to study, understand the themes like nation- state, state and nation building and their significance in current times

Learning Objectives

1. To make students acquaint with the concepts like frontier, boundaries and core areas and their importance in international relations
2. To know the strategic views and importance of political geographers in terms of global security, hegemony and power balance

Pre-requisites

1. Books, Maps, Globe,
 2. ICT
-

Unit I Introduction

15 Periods

1. Definition, nature and scope of political geography.
2. Recent development of political geography.
3. Significance of Study of political geography.

Unit II Geographic elements of the state

15 Periods

1. Physical elements
2. Cultural elements
3. Economic elements

Unit III Themes in political Geography

15 Periods

1. State, nation, nation-state and nation building
2. Frontier, boundaries and core areas.
3. Capitals: classification and function.

Unit IV Global strategic views

15 Periods

1. A.T. Mahan's Sea Base Power
2. Halford Mackinder's Heartland Theory
3. Spykman's Theory of Rimland

Suggested Readings:

- 1) Wighert, W.H. & Others : Elements of Political Geography –
Appleton Century Crofts Inc. New York.
- 2) Prescott, J.R.V. : Political Geography, Methuen, London
- 3) Muir, R. : Modern Political Geography, McMillan,
London.
- 4) भट्टाचार्य-आच्छा : राजनीतिक भूगोल, राजस्थान हिंदी ग्रंथ अकादमी, जयपूर
- 5) सक्सेना : राजनीतिक भूगोल - रस्तोगी पब्लिकेशन, मेरठ
- 6) मगर जयकुमार : राजकीय भूगोल, विद्या प्रकाशन, नागपूर
- 7) मोहन गुळवे : राजकीय भूविज्ञान, कैलास पब्लिकेशन औरंगाबाद
- 8) भागवत अ.वि. : राजकीय भूगोल
- 9) वेळापूरकर, कणकुरे, राठोड, उगाडे : भौगोलिक विचारधारा, अभिजीत पब्लिकेशन, लातूर

B. A. Third Year
Semester-VI
GE GEOG-II, Paper No.-XVII
Geography of India Part-II

Marks: 50

Credits: 02

Periods: 60

Salient Features

1. The aim of this course is to introduce the students with different socio-economic aspects of India
2. To make brief up the students with regional knowledge of India

Utility

1. To enable students to know the socio economic aspects and their regional variations in planning and development

Learning Objectives

1. To develop a sense of regional understanding and cooperation
2. To channelize the thought process of the students for planning and balanced regional development for harmonious coexistence

Prerequisites

1. Books, Maps and Charts
 2. ICT
-

Unit-I Population

10 Periods

1. Spatial distribution of population and density. Factors affecting on distribution and density of population
2. Socio-economic implications of population explosion

Unit-II Agriculture

15 Periods

1. Agricultural regions of India and important crops of the region
2. Green revolution and regional disparity in agricultural growth
3. Impact of globalization on Indian agriculture

Unit-III Industries and Trade

10 Periods

1. Industrial regions of India
2. Industrial development and Indian economy
3. Composition of domestic and international trade

Unit-IV Settlement

10 Periods

1. Growth of urbanization in India, problems and planning
2. Rural settlement pattern and morphology in India

Unit-V Contemporary Issues

15 Periods

1. Indicators of regional disparity in socio economic development
2. Poverty and food security
3. Gender discrimination and women empowerment
4. Globalization

Suggested Reading:

1. Bhatt, M. S. : Poverty and Food Security in India: Problems and Policies, Aakar Press, Delhi, 2004
2. Deshpande, C.D.: India: A Regional Interpretation, Northern Book Centre, New Delhi 1992
3. Farmer, B. H.: An Introduction to South Asia, Methuen, London,1983
4. Govt. of India: India-References Annual 2011, Pub. Div. New Delhi, 2011
5. Govt. of India: National Atlas of India, NATMO Publications, Kolkata
6. Hussain, Majid,: Geography of India, McGraw Hill Education (India) Chennai Pvt. Ltd. 2018
7. Learmonth, A. T. A. Man and Land of South Asia, Concept, New Delhi
8. Mitra, Ashok: Levels of Regional Disparity in India- Census of India- Vol-2 (A) (1) & (2) New Delhi,1987
9. Routray, J.K.: Geography of Regional Disparity Asian Institute of Technology, Bangkok,1993
10. Sharma, T.C.& Coutino : Economic and Commercial Geography of India, Vikas Publication House, New Delhi,
11. Spate, OHK & Learmonth, A. T. A.: India and Pakistan- Land, People and Economy, Methuen & Co. London,1967
12. Swaminathan, M. S.: 50 years of Green Revolution: An Anthology of Research Papers, World Scientific Publishing Co. Pvt. Ltd. 2017
13. Wadia, D. N.: Geography of India- McMillan 7 Co. London
14. डॉ एस टी शेते, डॉ. के. बी. कनकुरे, आणि इतर, भारतघण्टभूगोल, अभिजित प्रकाशन, ललसूर
15. केचे पांडुरंग : भारतघण्टभूगोल , कैलस प्रकाशन ,औरंगाबाद

B. A. Third Year
Semester-VI & V
DSE GEOG-IV, Paper No.-XVIII
Practical Geography

Marks: 50

Credits: 02

Periods: 45

Salient Features

1. To acquaint students with different methods of surveying and their use measurement and planning of landuse
2. To promote the use of computer and GIS skills in the study geography among the students for surveying and planning

Utility

1. The course will help the students to develop surveying skills, and their application in land measurement and planning

Learning Objectives

1. To make students acquaint with the basic concepts of different survey methods and their use in the field
2. To develop the skills of village survey and report writing

Pre-requisites

1. Books, Maps, Globe,
 2. ICT
 3. Field visit and survey
-

Paper XV - Statistical Methods

Unit I	Measurement of central tendencies	15 Periods
	Mean, Median and Mode in Simple, Discrete and Continuous series.	
Unit II	Measurement of Deviations	15 Periods
	Measurement of Deviations - Quartile, Mean and Standard deviation and their co-efficient, in Simple, Discrete and Continuous series.	

Paper XVIII- Application of computer and GIS in Geography

Unit I	Application of Computer in geography	05 Periods
Unit II	Concept of GIS and its application in geography	05 Periods
Unit III	Excursion or village survey report or part of city or Town survey report	05 Periods

Suggested Reading:

- 1) Sing and Singh : Mapwork and Practical Geography
- 2) Singh L. & Dutta P.K. : Elements of Practical Geography-
Kalyani Publishers, New Delhi 1979.
- 3) Hammod & Mc Gullah : Quantitative Techniques in Geography
- 4) Croxton & Cowden : Applied General Statistics
- 5) Sarkar, A. : Practical Geography – A Systematic
Approach – Orient Longman Calcutta, 1997.
- 6) Khan Z.A. : Text Book of Practical Geography
- 7) डॉ.नागतोंडे / डॉ.लांजेवार : नकाशाशास्त्र व प्रात्यक्षिक भूगोलशास्त्र, पिंपळापूरे अँड कं.
पब्लिशर्स, नागपूर.
- 8) महाजन वाय.आर. : सांख्यिकी, पिंपळापूरे प्रकाशन,नागपूर
- 9) डॉ.कनकूरे, डॉ.मानकरी/रमेश मुगावे : प्रात्यक्षिक भूगोल, अरूणा प्रकाशन, लातूर.
- 10) जे.पी. शर्मा : प्रात्यक्षिक भूगोल,
रस्तोगी प्रकाशन, मेरठ
- 11) हिरालाल यादव : प्रात्यक्षिक भूगोल

B. A. Third Year
Semester-VI
SEC-IV
Disaster Management

Marks: 50

Credits: 02

Periods: 45

Salient Features

1. The aim of this course is to introduce the students with few basics of Aerial Photography and Remote Sensing
2. To develop skills of interpretation of aerial photographs and satellite imageries

Utility

1. To make use of interpretation skills of aerial photographs and satellite imageries in understanding and analyzing the physical and human world

Learning Objectives

1. To keep students abreast with recent developments in geoinformatics
2. To help students to make use of interpretation skills in decision making and planning for the benefit of society

Pre-requisites

1. Aerial Photographs and Satellite Imageries
 2. Pocket and /or Prism stereoscope
 4. Field visit and ICT
-

Unit I Introduction

10 Periods

1. Meaning, nature, scope and types of disaster
2. Disaster Management Act-2005, Government of India.
3. Yokohama strategy -1994
4. Functionings of centre, state and District disaster management departments

Unit II Disaster Management

08 Periods

1. Disaster management plan
 - a. Pre-Disaster management
 - b. During disaster management
 - c. Post disaster management
2. Application of Remote sensing and GIS for disaster management

Unit III Role of Agencies in Disaster Management

10 Periods

The role of various departments in disaster management-ISRO, Police, Revenue, Fire, PWD, Irrigation, School & Colleges, Health, Z.P., Municipal council, Corporation and Village.

Unit IV Training Centers for Disaster Management**09 Periods**

Disaster management and training centers: Government Private, N.C.C., N.S.S., NGOs, Police, N.D.R.F., and Paramilitary force, Defense wings (Air force, Army and Navy)

Unit V Role of Media in Disaster Management**08 Periods**

The role of Media in disaster management: Social Media, Print Media, Electronic Media, All India Radio, Common people and Government GR

Suggested Reading:

1. P. P. Marathe: Practical Disaster Management, Diamond Publication, Pune
2. Dr. Akhilesh K. Pande: Disaster Management, Damini Garg for Murari Lal & Sons, New Delhi.
3. Anu Kapur : Disaster in India: Studies of Grim Reality, Rawat Publication, Jaipur.
4. R. B. Singh: Natural Hazards and Disaster Management (Vulnerability and Mitigation), Rawat Publication, Jaipur.
5. K. C. Samal, S. Meher, N. Panigrahi and S. Mohanty: State ,NGOs and Disaster Management, Rawat Publication, Jaipur.
6. Paranjape H. K: The Bhopal's Gas Disaster: A Chronology of Principal Events in the Bhopal Gas Disaster Litigation, Janta.
(Marathi references 10th)

Websites

<https://www.ndma.gov.in>

<https://www.nidm.gov.in>

<http://www.en.m.wikipedia.org>

<http://www.ndmindia.nic.in>

<http://www.aidmi.org>

<http://www.nhp.gov.in>

<https://www.maharashtra.gov.in>

B. A. Third Year

Semester-VI

SEC-IV

Interpretation of Aerial Photographs and Satellite Imagery (Or Paper)

Marks: 50

Credits: 02

Periods: 45

Silent Features

1. The aim of this course is to introduce the students with few basics of Aerial Photography and Remote Sensing
2. To develop skills of interpretation of aerial photographs and satellite imageries

Utility

1. To make use of interpretation skills of aerial photographs and satellite imageries in understanding and analyzing the physical and human world

Learning Objectives

1. To keep students abreast with recent developments in geoinformatics
2. To help students to make use of interpretation skills in decision making and planning for the benefit of society

Pre-requisites

1. Aerial Photographs and Satellite Imageries
2. Pocket and /or Prism stereoscope
3. Geometry box

Unit-I Introduction

15 Periods

1. Definition and Development of Remote Sensing
2. Meaning of Platform and Their Types
3. Electromagnetic Spectrum
4. Sensors

Unit-II Aerial Photographs and Satellite Imageries

15 Periods

1. Concept of Aerial Photographs and Satellite Imageries
2. Scale of Aerial Photograph and Satellite Imagery
3. Types of Aerial Photographs
4. Types of Satellite Imageries

Unit- III Interpretation of Aerial Photographs and Satellite Imageries

15 Periods

1. Basic Principles of Interpretation
2. Elements of Interpretation

Suggested Reading:

1. George Joseph,(2005): Fundamentals of Remote Sensing, University Press Pvt. Ltd. Hyderabad
2. Lillesand , T.M. and Kiefer, R.W. (1994): Remote Sensing and Image Interpretation, Wiley Publication, New York
3. M. Anji Reddy,(2001): Text book of Remote Sensing and Geographical Information System, B.S. Publication, Hyderabad
4. पेशववि. वि. (१९९०) : दूरसंवेदन, मराठी विज्ञान परिषद प्रकाशन, पुणे
5. डॉ. श्रीकांत कार्णेकर (२००६): दूरसंवेदन, डायमंड पब्लिकेशन, पुणे

* * * * *



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड- ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

Established on 17th September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



ACADEMIC (1-BOARD OF STUDIES) SECTION

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E-mail: bos.srtmun@gmail.com

मानवविज्ञान विद्याशाखेतील पदवी
स्तरावरील तृतीय वर्षाचे CBCS Pattern
नुसारचे अभ्यासक्रम शैक्षणिक वर्ष
२०१८-१९ पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक १४ जून २०१८ रोजी संपन्न झालेल्या ४१व्या मा. विद्या परिषद बैठकीतील विषय क्र.११/४१-२०१८ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील तृतीय वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१८-१९ पासून लागू करण्यात येत आहेत.

- १) इंग्रजी
- २) हिंदी
- ३) कन्नड
- ४) मराठी
- ५) पाली
- ६) संस्कृत
- ७) उर्दू
- ८) अर्थशास्त्र
- ९) भूगोल
- १०) इतिहास
- ११) सैनिकशास्त्र
- १२) तत्त्वज्ञान
- १३) राज्यशास्त्र
- १४) लोकप्रशासन
- १५) समाजशास्त्र

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड - ४३१ ६०६.

जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदवी-सीबीसीएस अभ्यासक्रम/
२०१८-१९/२५२

दिनांक : २५.०६.२०१८.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, यू.जी.सी. कक्ष, प्रस्तुत विद्यापीठ.

स्वाक्षरित / -

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड.

स्वामी रामानंद तीर्थ मराठवाडा विश्वविद्यालय, नांदेड

"ज्ञानतीर्थ" विष्णुपुरी, नांदेड

बी.ए.तृतीय वर्ष ऐच्छिक हिंदी तथा

स्नातक तृतीय वर्ष हिंदी पाठ्यक्रम

(Elective, Generic & Skill Enhancement Course)

जून २०१८ से प्रारंभ

Under Graduate Third Year Syllabus & Work Load Distribution
Semester Pattern effective from June 2018
Subject : Hindi (Optional) & S.E.C.

Semester		Paper No.	Lecturers/ week	Total No. of Lecturers	CA	ESE	Total Marks	Credits
Semester V	DSE HIN I Elective	Hindi (Optional) IX	4	55	35	40	75	3
	DSG HIN I Generic	Hindi (Optional)	4	55	35	40	75	3
	SEC III	हिंदी कौशल विकास	3	45	25	25	50	2
		Total V	11	155	95	105	200	8
Semester VI	DSE HIN II Elective	Hindi (Optional) X	4	55	35	40	75	3
	DSG HIN II Generic	Hindi (Optional)	4	55	35	40	75	3
	SEC IV	हिंदी कौशल विकास	3	45	25	25	50	2
		Total VI	11	155	95	105	200	8
		Total V,VI	22	310	190	210	400	16

DSE HIN - I हिंदी साहित्य का इतिहास

- उद्देश्य एवं महत्व :

- i) हिंदी साहित्य के वृहत इतिहास का परिचय कराना।
- ii) हिंदी साहित्य के सृजन की पृष्ठभूमि को समझना।
- iii) साहित्यिक प्रवृत्तियों की परम्परा को समझना।
- iv) साहित्य के माध्यम से जीवनमूल्यों एवं जीवन दर्शन को समझना।
- v) भाषाई शिल्प के परिवर्तनों को समझना।
- vi) हिंदी साहित्य के आदिकाल तथा रीतिकाल का संक्षिप्त परिचय देना।
- vii) भक्तिकाल तथा आधुनिक काल की प्रवृत्तियों से छात्रों को अवगत कराना।

- महत्व :

इतिहास का अध्ययन महत्वपूर्ण है, क्योंकि इतिहास की पुनरावृत्ति होती है इसलिए किसी भी साहित्य के इतिहास का अध्ययन भविष्यकालीन निर्माण में अत्यंत आवश्यक होता है। साहित्य की परिस्थितियाँ और प्रवृत्तियाँ हमारे वर्तमान जीवन को बनाने में सहयोग देती हैं। तत्कालीन जीवमूल्य, जीवन दर्शन, समस्याएँ, संस्कृति का वर्तमान से सह-संबंध समापित होकर नये जीवन और कलाओं का निर्माण होता है।

DSE HIN - II साहित्यशास्त्र

- i) साहित्य का शास्त्रिय पध्दति से अध्ययन करना।
- ii) साहित्यशास्त्र के महत्व को प्रतिपादित करना।
- iii) छात्रों में साहित्य के प्रति शास्त्रिय दृष्टिकोन विकसित करना।
- iv) शब्द और अर्थों के सम्बन्धों को समझना।
- v) आलोचना की मानविय सहज प्रवृत्ति का साहित्यिक विश्लेषण करना।

● महत्व :

शिक्षा ज्ञानवर्धन का साधन है। सांस्कृतिक जीवन का माध्यम है। अपनी क्षमताओं का पूर्ण उपयोग करते हुए जीवन जीने की कला के साथ-साथ व्यक्तित्व के विकास का पथ-प्रदर्शन भी है। इन कलाओं के माध्यम से ही मनुष्य अपने जीवन को आनंदमय बना सकता है। आधुनिक तकनीकी युग में साहित्य की शास्त्रियता मनुष्य जीवन का एक मात्र आधार सिद्ध होती है। अतः साहित्य का शास्त्रिय दृष्टिकोन से अध्ययन होना आवश्यक है।

DSG HIN - I हिंदी भाषा

- **उद्देश्य :**

- i) हिंदी भाषा के प्रति छात्रों में रूचि उत्पन्न करना।
- ii) भाषा के स्वरूप को समझना।
- iii) हिंदी भाषा के प्रयुक्ति क्षेत्रों का परिचय कराना।
- iv) भाषाई वैविध्य वाले भारत देश में हिंदी के महत्व को समझाना।
- v) प्रायोगिकी के युग में हिंदी भाषा की उपयोगिता को समझाना।
- vi) हिंदी की संवैधानिक स्थिती से छात्रों को अवगत कराना।

- **महत्व :**

वैदिक संस्कृत, प्राकृत, पाली, अपभ्रंश आदि पड़ावों से गुजरकर हिंदी भारतवासियों के दिल की धड़कन बनी। यदि भारत की भाषाओं का इतिहास उठाकर देखें तो पता चलता है कि हिंदी किसी न किसी रूप में अपनी सहोदर भाषाओं को अपना सहयोग प्रदान करती रही है। भाषा मानवीय जीवन का महत्वपूर्ण अंग है। इसलिए भाषा के स्वरूप, प्रयुक्ति क्षेत्र और उसकी उपयोगिता का अध्ययन करना आवश्यक है। हिंदी भाषा आज केवल विचारों के आदान-प्रदान का साधन न होकर वह नये नये रोजगारों के अवसर भी निर्माण कर रही है। वैश्वीकरण के बदलते परिवेश में हिंदी की उपयोगिता दिन-ब-दिन बढ़ रही है।

DSG HIN - II भाषा शिक्षण

उद्देश्य :

- भाषा शिक्षण के महत्व को प्रतिपादित करना।
- हिंदी भाषा के व्याकरणिक कोटियों को समझना।
- भाषाई शुद्धता एवं कुशलता के माध्यम से रोजगार के अवसर बढ़ाना।
- बदलते भाषाई परिवेश में परंपरागत भाषाई मौलिकता और लोकभावनाओं को समझना।

महत्व :

भाषा मानविय भावनाओं एवं विचारों को अभिव्यक्त करने का सशक्त माध्यम है। भाषा के माध्यम से ज्ञान प्राप्ति एवं अभिव्यक्ति संभव है। अतः भाषा शिक्षण के माध्यम से भाषाई शुद्धता एवं प्रयोग कुशलता से रोजगार के अवसर प्रदान किए जा सकते हैं। विज्ञान एवं प्राद्योगिकी के उत्तरोत्तर विकास से २० वी शताब्दी में औद्योगिक क्रांति आयी और अब २१ वी शती में सूचना क्रांति हुयी। हिंदी भाषा की उपादेयता इस बात से प्रमाणित होती हे कि यह हमारे बहुसंख्य लोगों की भाषा है साथ ही यह साहित्य की भाषा होते हुये इसमें विज्ञान तथा व्यापार की अद्यतन जानकारियाँ है। इसलिए भाषा शिक्षण का महत्व अक्षुण्ण है।

हिंदी भाषा कौशल III, IV

उद्देश्य :

- छात्रों में व्यवसायाभिमुख कौशल विकसित करना।
- कौशल के अनेक क्षेत्रों से हिंदी को जोड़ना।
- छात्रों में लेखन कौशल विकसित करना।
- छात्रों को रोजगार के अवसरों से परिचित एवं प्रेरित करना।
- छात्रों को कौशल के माध्यम से सम्पूर्ण व्यक्तित्व को विकसित करना।
- कौशल विकास के माध्यम से राष्ट्र निर्माण में योगदान देना।

महत्व :

बदलते वैश्विक परिदृश्य में आज अर्थ महत्वपूर्ण हो गया है जिसके परिणामस्वरूप बाजारवाद को बढ़ावा मिला है। अतः शिक्षा क्षेत्र में भी पारंपारीक शिक्षा के साथ-साथ कौशल विकास के माध्यम से छात्रों को कार्यकुशल बनाना वर्तमान समय की माँग है। विश्व में भारत की 'युवाओं का राष्ट्र' ऐसी पहचान बन रही है। इस युवाशक्ति की क्षमता को राष्ट्रनिर्माण के लिए उपयोग में लाना आवश्यक है। इसलिए युवाओं में कौशल विकास का होना अनिवार्य है। विज्ञान एवं औद्योगिकी, अभियांत्रिकी, चिकित्सा, विधि तथा प्रबंधन में हिंदी भाषा कौशल अत्याधिक मात्रा में दिखाई देता है।

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बी.ए.तृतीय वर्ष ऐच्छिक हिंदी प्रश्न पत्र क्र. DSE HIN - I (Elective)
पाठ्यक्रम की रूपरेखा (पंचम सत्र)

हिंदी साहित्य का इतिहास

खण्ड क) I आदिकाल

आदिकाल परिचय
आदिकालीन साहित्य की प्रेरक परिस्थितियाँ।

II भक्तिकाल

1. भक्तिकाल : परिचय
2. निर्गुण भक्ति - ज्ञानाश्रयी, प्रेमाश्रयी शाखा की प्रवृत्तियाँ।
3. सगुण भक्ति - रामभक्ति, कर्णभक्ति शाखा की प्रवृत्तियाँ।

खण्ड ख) रीतिकाल

1. रीतिकाल : परिचय, रीतिबद्ध, रीतिसिद्ध, रीतिमुक्त काव्यधारा का संक्षिप्त परिचय।
2. आधुनिक काल : परिचय, भारतेंदु युग, द्विवेदी युग, छायावाद, प्रगतिवाद, प्रयोगवाद, नई कविता की प्रवृत्तियाँ।

प्रश्नपत्र का प्रारूप

	अंक	४०
प्रश्न १ भक्तिकाल पर विकल्प के साथ दीर्घोत्तरी प्रश्न	१५	
प्रश्न २ आधुनिक काल पर विकल्प के साथ दीर्घोत्तरी प्रश्न	१५	
प्रश्न ३ टिप्पणियाँ :		
अ) आदिकाल पर विकल्प के साथ टिप्पणी :	०५	
ब) रीतिकाल पर विकल्प के साथ टिप्पणी :	०५	
	-----	४०
● अंतर्गत मूल्यांकन	अंतर्गत अंक	३५
१. कक्षा परीक्षा दो (१०+१०) = २०	-----	
२. सेमिनार = १५		७५

		३५

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पाठ्यक्रम की रूपरेखा (षष्ट सत्र)

साहित्यशास्त्र

पाठ्यक्रम

खण्ड क)

काव्य :

१. काव्य का अर्थ, परिभाषा तथा स्वरूप ;
२. काव्य के तत्त्व,
३. काव्य के प्रयोजन,
४. काव्य के हेतु ।

खण्ड ख) I

शब्द-शक्ति :

१. अर्थ, परिभाषा और स्वरूप ;
२. शब्द-शक्ति के भेद, अभिधा, लक्षणा, व्यंजना ।

II आलोचना :

१. परिभाषा, स्वरूप
२. आलोचक के गुण ।

प्रश्नपत्र का प्रारूप

	अंक	४०
प्रश्न १ खण्ड क पर विकल्प के साथ दीर्घोत्तरी प्रश्न	१५	
प्रश्न २ खण्ड ख पर विकल्प के साथ दीर्घोत्तरी प्रश्न	१५	
प्रश्न ३ टिप्पणियाँ :		
अ) खण्ड क पर विकल्प के साथ टिप्पणी :	०५	
ब) खण्ड ख पर विकल्प के साथ टिप्पणी :	०५	

	४०	
● अंतर्गत मूल्यांकन	अंतर्गत अंक	३५
१. कक्षा परीक्षा दो (१०+१०) = २०		-----
२. सेमिनार = १५		७५

	३५	

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बी.ए.तृतीय वर्ष ऐच्छिक हिंदी प्रश्न पत्र क्र. DSG HIN - I (Generic)
पाठ्यक्रम की रूपरेखा (पंचम सत्र)

हिंदी भाषा

क) हिंदी भाषा

१. भाषा की परिभाषा तथा स्वरूप ;
२. भाषा की विशेषताएँ ;
३. हिंदी भाषा का उद्भव और विकास।

ख) हिंदी भाषा के विविध रूप

१. प्रयोजनमूलक हिंदी
२. राष्ट्रभाषा
३. राजभाषा
४. संपर्क भाषा

ग) हिंदी की स्थिति

१. भाषा प्रायोगिकी स्वरूप एवं संभावनाएँ।
२. संविधान के अनुच्छेद ३४३ के अनुसार हिंदी की संवैधानिक स्थिति।
३. हिंदी की वैश्विक स्थिति

प्रश्नपत्र का प्रारूप

	अंक ४०
प्रश्न १ हिंदी भाषा पर विकल्प के साथ दीर्घोत्तरी प्रश्न	१५
प्रश्न २ हिंदी भाषा के विविध रूपों पर विकल्प के साथ दीर्घोत्तरी प्रश्न	१५
प्रश्न ३ टिप्पणियाँ :	
अ) खंड क और ग पर विकल्प के साथ टिप्पणी :	०५
ब) खंड ख और ग पर विकल्प के साथ टिप्पणी :	०५

	४०
● अंतर्गत मूल्यांकन	अंतर्गत अंक ३५
१. कक्षा परीक्षा दो (१०+१०) = २०	-----
२. सेमिनार = १५	कुल अंक ७५

३५	

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पाठ्यक्रम की रूपरेखा (षष्ट सत्र)

भाषा शिक्षण

पाठ्यक्रम

खण्ड क)

वर्तनी :

१. शुद्ध वर्तनी का महत्व ।
२. शुद्ध वर्तनी के नियम ।
३. लोकोक्तियाँ और मुहावरों का महत्व और उदाहरण ।

खण्ड ख)

समाज माध्यम (Social Media) :

१. समाज माध्यम का महत्व ।
२. समाज माध्यमों का प्रभाव ।
३. साइबर क्राईम कानून तथा आचार संहिताएँ ।

खण्ड ग)

सृजनात्मक व्यक्तित्व :

१. म.गांधी
२. डॉ.बाबासाहेब आंबेडकर
३. डॉ.ए.पी.जे.अब्दुल कलाम
४. कबीर
५. प्रेमचंद
६. महादेवी वर्मा ।

प्रश्नपत्र का प्रारूप

	अंक ४०
प्रश्न १ वर्तनी पर विकल्प के साथ दीर्घोत्तरी प्रश्न	१५
प्रश्न २ समाज माध्यम पर विकल्प के साथ दीर्घोत्तरी प्रश्न	१५
प्रश्न ३ टिप्पणियाँ :	
अ) खण्ड ग पर विकल्प के साथ टिप्पणी :	०५
ब) खण्ड ग पर विकल्प के साथ टिप्पणी :	०५

	४०
● अंतर्गत मूल्यांकन	अंतर्गत अंक ३५
४. कक्षा परीक्षा दो (१०+१०) = २०	-----
५. सेमिनार = १५	कुल अंक ७५

	३५

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हिंदी कौशल विकास प्रश्नपत्र S.E.C. - III
पंचम सत्र

अध्यापन तासिकाएँ	१५	लिखित प्रश्नपत्र	अंक २५
प्रात्यक्षिक तासिकाएँ	३०	प्रात्यक्षिक	अंक २५
-----		-----	
कुल तासिका	४५		५०

पाठ्यक्रम

- अ) पटकथा लेखन के अंग तथा उदाहरण
सिनेमा की पटकथा
दूरदर्शन की पटकथा;
रेडिओ की पटकथा।
- ब) भाषा कौशल :
भाषा कौशल के माध्यम-श्रवण, भाषण, वाचन, लेखन।
संक्षेपन की परिभाषा एवं स्वरूप उदाहरण सहित
पल्लवन की परिभाषा एवं स्वरूप उदाहरण सहित।
- क) लेखन की शुद्धता एवं सुंदरता :
१. स्वच्छ भारत अभियान
२. बेटी बचाओ बेटी पढ़ाओ
३. जल ही जीवन है
४. पर्यावरण सुरक्षा
५. वर्तमान समय और नैतिक मूल्य।

CA (Continues Assessment) मूल्यांकन

१. सेमिनार	१५
२. कक्षा परीक्षा ०२ (०५+०५)	१०

	२५

ESE (End Semester Exam) मूल्यांकन :

१. कौशल प्रकल्प लेखन	१० अंक
२. कौशल मूल्यांकन	१० अंक
३. कौशल मौखिकी	०५ अंक

	२५ अंक

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षष्ठ सत्र

अध्यापन तासिकाएँ	१५	लिखित प्रश्नपत्र	अंक २५
प्रात्यक्षिक तासिकाएँ	३०	प्रात्यक्षिक	अंक २५
-----		-----	
कुल तासिका	४५		५०

पाठ्यक्रम

अ) विज्ञापन :

- i) प्रिंट मीडिया के किसी एक विज्ञापन की भाषा का विश्लेषण ।
- ii) रेडिओ के एक विज्ञापन की भाषा का विश्लेषण ।
- iii) दूरदर्शन के एक विज्ञापन की भाषा का विश्लेषण ।

ब) भाषाई कम्प्यूटर :

- i) यूनिकोड की वर्तमान स्थिति
- ii) कम्प्यूटर का भाषाई भविष्य
- iii) हिंदी में पॉवर पॉइन्ट का महत्व एवं प्रविधि
- iv) हिंदी में एम.एस.वर्ड, एक्सल शीट निर्माण विधि

क) ब्लॉग लेखन :

- i) ब्लॉग लेखन का महत्व एवं प्रकार
- ii) हिंदी में ब्लॉग लेखन की प्रविधि
- iii) इंटरनेट पर सामग्री सृजन एवं यु-ट्यूब पर प्रकाशन ।

C.A. (Continues Assessment) मूल्यांकन

१. सेमिनार १५ अंक
२. कक्षा परीक्षा ०२ ०५+०५=१० अंक

२५ कुल अंक

ESE (End Semester Exam) मूल्यांकन

१. कौशल प्रकल्प लेखन १० अंक
२. कौशल मूल्यांकन १० अंक
३. कौशल मौखिकी ०५ अंक

२५ कुल अंक

संपूर्ण पाठ्यक्रम

सहाय्यक ग्रंथ सूची :

१. हिन्दी साहित्य का इतिहास : आचार्य रामचन्द्र शुक्ल
२. हिन्दी साहित्य का इतिहास : आचार्य हजारीप्रसाद द्विवेदी
३. हिन्दी साहित्य का इतिहास : डॉ. हुकुमचन्द राजपाल
४. हिन्दी साहित्य का इतिहास : सं. डॉ. नगेन्द्र
५. हिन्दी साहित्य : युग और प्रवृत्तियाँ - शिवकुमार शर्मा
६. साहित्यशास्त्र : माधव सोनटक्के
७. साहित्यशास्त्र : नारायण शर्मा
८. साहित्यशास्त्र : चंद्रभानु सोनवणे
९. काव्यशास्त्र : भगीरथ मिश्र
१०. प्रयोजनमूलक हिन्दी : अधुनातन आयाम - अंबादास देशमुख
११. प्रयोजनमूलक हिन्दी : विनोद गोदरे
१२. प्रयोजनमूलक हिन्दी : सिद्धांत एवं प्रयोग - दंगल झाल्टे
१३. भाषा : स्वरूप और संरचना - हेमचंद्र पांडे
१४. भाषा शिक्षण - रविन्द्रनाथ श्रीवास्तव
१५. पटकथा कैसे लिखें : राजेन्द्र पांडे
१६. पटकथा लेखन एक परिचय - मनोहर श्याम जोशी
१७. रचनात्मक लेखन - सं. रमेश गौतम
१८. टेलीविजन लेखन - असगर वजाहत और प्रभात रंजन
१९. टेलीविजन की भाषा : हरीशचंद्र बर्णवाल
२०. डीजिटल ब्रॉडकास्टिंग जर्नलिज्म - जितेन्द्र शर्मा
२१. कम्प्यूटर एक परिचय : सं. संतोष चौबे
२२. एम.एस. ऑफिस : विज्ञान एवं प्रौद्योगिकी विभाग - भारत सरकार
२३. कम्प्यूटर के भाषिक अनुप्रयोग : विजयकुमार मल्होत्रा
२४. सोशल मीडिया : योगेश पटेल
२५. उत्तर आधुनिक मीडिया तकनीक : हर्षदेव
२६. हिन्दी विकास और स्वरूप : कैलाशचन्द्र भाटिया
२७. इंटरनेट : शशि शुक्ला
२८. विज्ञापन माध्यम एवं प्रचार : विजय कुलश्रेष्ठ

* * * * *

स्वामी रामानंद तीर्थ मराठवाडा विश्वविद्यालय, नांदेड
बी.ए. तृतीय वर्ष ऐच्छिक हिंदी प्रश्न क्र. IX (विकल्प में)
पाठ्यक्रम की रूपरेखा (पंचम सत्र)
भारतीय साहित्य I

DSE HIN- I (Elective)

पाठ्यक्रम :

खण्ड अ) भारतीय साहित्य की अवधारणा एवं स्वरूप

खण्ड ब) आत्मकथा

जूठन : ओमप्रकाश वाल्मीकि - राजकमल प्रकाशन, दिल्ली

खण्ड क) नाटक :

खामोश आदालत जारी है : विजय तेंडूलकर

प्रश्नपत्र का प्रारूप

	अंक - ४०
प्र.१ खण्ड 'ब' पर विकल्प के साथ दीर्घोत्तरी प्रश्न	१५
प्र.२ खण्ड 'क' पर विकल्प के साथ दीर्घोत्तरी प्रश्न	१५
प्र.३ टिप्पणियाँ	
i) खण्ड 'अ' पर विकल्प के साथ टिप्पणी	१०

	४०
	अंतर्गत अंक - ३५

	७५

● अंतर्गत मुल्यांकन

१) कक्षा परीक्षा दो (१० + १०) = २०

२) सेमिनार = १५

३५

स्वामी रामानंद तीर्थ मराठवाडा विश्वविद्यालय, नांदेड
बी.ए. तृतीय वर्ष ऐच्छिक हिंदी प्रश्न क्र. XI (विकल्प में)
पाठ्यक्रम की रूपरेखा (षष्टम सत्र)
भारतीय साहित्य II

DSE HIN- II (Elective)

पाठ्यक्रम :

- खण्ड अ) भारतीय साहित्य की विशेषताएँ तथा अध्ययन की समस्याएँ
खण्ड ब) आनंदमठ (उपन्यास) - बंकीमचंद्र - राजकमल प्रकाशन, नई दिल्ली
खण्ड क) 'अधूरे मनुष्य' (कहानी संग्रह) -
डी. जयकांतन - भारतीय ज्ञानपीठ प्रकाशन, दिल्ली

प्रश्नपत्र का प्रारूप

	अंक - ४०
प्र.१ खण्ड 'ब' पर विकल्प के साथ दीर्घोत्तरी प्रश्न	१५
प्र.२ खण्ड 'क' पर विकल्प के साथ दीर्घोत्तरी प्रश्न	१५
प्र.३ टिप्पणियाँ	
i) खण्ड 'अ' पर विकल्प के साथ टिप्पणी	१०

	४०
अंतर्गत अंक -	३५

	७५

● अंतर्गत मुल्यांकन

१) कक्षा परीक्षा दो (१० + १०) = २०

२) सेमिनार = १५

३५



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड- ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

Established on 17th September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



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मानवविज्ञान विद्याशाखेतील पदवी
स्तरावरील तृतीय वर्षाचे CBCS Pattern
नुसारचे अभ्यासक्रम शैक्षणिक वर्ष
२०१८-१९ पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक १४ जून २०१८ रोजी संपन्न झालेल्या ४१व्या मा. विद्या परिषद बैठकीतील विषय क्र.११/४१-२०१८ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील तृतीय वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१८-१९ पासून लागू करण्यात येत आहेत.

- १) इंग्रजी
- २) हिंदी
- ३) कन्नड
- ४) मराठी
- ५) पाली
- ६) संस्कृत
- ७) उर्दू
- ८) अर्थशास्त्र
- ९) भूगोल
- १०) इतिहास
- ११) सैनिकशास्त्र
- १२) तत्त्वज्ञान
- १३) राज्यशास्त्र
- १४) लोकप्रशासन
- १५) समाजशास्त्र

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड - ४३१ ६०६.

जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदवी-सीबीसीएस अभ्यासक्रम/
२०१८-१९/२५२

दिनांक : २५.०६.२०१८.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, यू.जी.सी. कक्ष, प्रस्तुत विद्यापीठ.

स्वाक्षरित / -

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग



**SWAMI RAMANAND TEERTH MARATHWADA
UNIVERSITY, NANDED**

KANNADA SYLLABUS

CBCS PATTERN

B.A. III YEAR

SEMESTER –V & VI

WITH EFFECT FROM JUNE 2018

B.A. III Year (Optional)
Semester-V
Title: Study of Kannada Grammar
DSE KAN-I

Marks: 50

There or will be one text book in this paper. A study of Kannada tradition grammar of Shabdamani Darpana.

- Unit-I Suddige, Ralakula Khala, Nija bimdy, Vikalpa Bindu, Dwitwa Shital
 Dwatawa, Vyanjangalu
- Unit-II Sandi prakarna : Swar Sandhi, Venjana Sandi, Divitiya Sandi
- Unit-II Nama prakarna : Linga, VAchana, Vibhakti, Lingamombatuterram,
 Deegadesha Samuchayadum, Vidi Bahutvam
- Unit-IV Samas Prakarna : Tatpursha, Karmadhreya, Dwigu, Bhaurvi,
 Dwandva, Avyaibhav, Kriya Samasa, Gamaka Samas, Samas Kriya
- Unit-V Akyat Prakarna : Dhatu, Isupratya, Vibhakti Prataya, Akyat, Sati
 Saptami

Textbook:

Shabdmani Darpan - By Keshiraj

Reference Books.

Shabdmani Darpan - D.L. Narshimahacharya

Shabdmani Darpan Vilas – V. Shivanand

Shabdmani Darpan - Dr.V.G. Poojar

Shabdmani Darpan Sangrah- Prof.Shivraj M. Devappa

B.A. III Year (Optional)
Semester-V
Title: Medieval Kannada Poetry and Prose
DGE KAN-1

Marks: 50

There or will be one edited book in this paper. A study of Kirtane Tatwa Padagalu and Dasa Sahitya

- Unit-I Ugama, Vikas, Tatwapada, Artha, Anubhav, Sripada Raja, Uttamar Sanga, Palologadu Nirolagadu, Mosahodevalla.
- Unit-II Vyasarayaru : Janana, Antarangadalli, Hariyy, Kolalanduva, Dasarendare, Nambi Kettawarillo.
- Unit-III Purandar Dasar Janana Balya, Agnyani Kuda, Adadella, Esabeku, Jaliya, Maradarte, Nindarkarirabeku, Manav Janma Doddadu Murkharadhoru.
- Unit-IV Kanakdasar Janana, Kalyugad Mahime, Hulu taruv, Varakavigala tallanisdiru Ahudadare Ahudenni
- Unit-V Vijayadasaru, Yendigahudu Nina Darushan, Gopal Dasaru, Yenna Bhinnav Kelu Dhanwatari Jagana Das, Dasrigunte Bhayashoka

Textbook:

Kirtane Tatwa Padagala Sankgraha – Edi. By Dr. Vasudev Agnihotri Prasarange Gulbarga University, Gulbarga.

Reference Books:

Dasa Padagalu

Kanadasar Kiranegallu

CBCS Pattern
Kannada Skill Enhancement Course
B.A. III Year Semester-V
SEC-III
Title: Kannada Grammar

Marks: 50

Unit-I	Kannada Kavyadali Chandsina Mahatwa Akshar Watagulu ganagule Kanda Ragale Ashgana	Marks 10
Unit-II	Tripadi Shatpadi Sangatya Akkar Khyata Karnataka Wratagalu Sandhi Samas	Marks 15
Unit-III	Continuous assessment (CA) Periods 10 1) Class test during the semester for 15 marks. 2) Presentation 10 marks	Marks 25

Textbook:

Kannada Chandvikas – Dr.D.S. Karki

Reference Book:

Chandashtra Darpana – D.T. Rangaswami

CBCS Pattern
B.A. III Year Semester-VI
DSE-KAN-II
Title: Study of Kannada Language and Linguistics

Marks: 50

- Unit-I Bhashe Yendarenu, Bhasheya Ugama, Vikas Vyakegulu
- Unit-II Bhasheya Swarupa, Laxana, Mahatwa, Prayojana
- Unit-III Bhasheya Prrakaragalu, Vargikaran, Dhvani Vyatyas Swikarna
- Unit-IV Pradeshika Upbashegalu-Mysore Kannada
Dharwad Kannada, Kalburgi Kannada, Manglur Kannada

Textbook:

Kannada Bhashashtra- Dr. R.Y. Dharwadkar

Reference Book:

- 1) Kannada Bhasheya Vyasangya – Dr.Sangmesh Saudathimath
- 2) Kannada Bhasheye Vignan – Dr. H. Nagegauda
- 3) Kannada Bhasheye Swarup – Dr. S. Saudathimath

CBCS Pattern
B.A. III Year Semester-VI
DGE-KAN-II
Title: Old and Medieval Kannada Poetics and Prose

Marks: 50

Unit-I Harihara Girija Kalyan, Raghavanka, Short Literature

Unit-II Nemichandra, Rudra Bhatta, Kavi Ganna, Kumar Vyas

Unit-III Lakkanna Dandesh, Kavi Chamarasa, Kumar Valmiki

Unit-IV Laxmisha Sarwagna Ratnakarwarni

Textbook:

Kavi Kavya – Dr. Ramesh H.

Reference Book:

1) Kannada Sahitya Charitre – Dr. R.C. Mugali

CBCS Pattern
Kannada Skill Enhancement Course
B.A. III Year Semester-VI
Paper-IV
Title: Kannada General Knowledge (Modern Kannada Literature)
SEC-IV

Marks: 50

- Unit-I Anuwad kale, Bhashan kale, Kauvempu
 Dr.D.R. Bendre, Masti Vyankatesh Ayangar, V.K. Gokak
- Unit-II Rang kale, Sangit Kale, Nratya Kale
 K. Shivram Karant, Girish Karnad, Dr.U.R. Anantmurthi
 Chandrashekhar Kambar

Reference Book:

- 1) Kannada Sahitya Charitra- R.S. Mugale
- 2) Kannada General Knowledge – D.R. Bendre

**B.A. III Year
Semester-V & VI
Model Question Paper**

Marks: 50

1)	Essay types questions internal choice	10
2)	Essay types questions internal choice	10
3)	Essay types questions internal choice	10
4)	Short notes two out of four	10
5)	Internal marks	10

* * * * *



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड- ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

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मानवविज्ञान विद्याशाखेतील पदवी
स्तरावरील तृतीय वर्षाचे CBCS Pattern
नुसारचे अभ्यासक्रम शैक्षणिक वर्ष
२०१८-१९ पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक १४ जून २०१८ रोजी संपन्न झालेल्या ४१व्या मा. विद्या परिषद बैठकीतील विषय क्र.११/४१-२०१८ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील तृतीय वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१८-१९ पासून लागू करण्यात येत आहेत.

- १) इंग्रजी
- २) हिंदी
- ३) कन्नड
- ४) मराठी
- ५) पाली
- ६) संस्कृत
- ७) उर्दू
- ८) अर्थशास्त्र
- ९) भूगोल
- १०) इतिहास
- ११) सैनिकशास्त्र
- १२) तत्त्वज्ञान
- १३) राज्यशास्त्र
- १४) लोकप्रशासन
- १५) समाजशास्त्र

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड - ४३१ ६०६.

जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदवी-सीबीसीएस अभ्यासक्रम/
२०१८-१९/२५२

दिनांक : २५.०६.२०१८.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, यू.जी.सी. कक्ष, प्रस्तुत विद्यापीठ.

स्वाक्षरित / -

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

विषय : मराठी

श्रेयांक (C.B.C.S.) पद्धतीनुसार

पदवी तृतीय वर्ष

सत्र - पाच व सहा करीता

मराठी विषयाचा

कौशल्य विकास (SEC), वैकल्पिक (Elective) व सामान्य (Generic) अभ्यासक्रम

(जून - २०१८ पासून लागू)

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ नांदेड

विषय : मराठी

पदवी तृतीय वर्ष अभ्यासक्रम - श्रेयांक पध्दतीनुसार (C.B.C.S.) सत्र
पध्दतीनिहाय कौशल्य विकास (SEC), वैकल्पिक (Elective) व सामान्य (Generic) अभ्यासक्रम)

जून २०१८ पासून लागू

सत्र	अभ्यासपत्रिका संकेतांक व क्रमांक	अभ्यास-पत्रिकेचे नांव	आठवड्याच्या तासिका	एकूण तासिका	अंतर्गत मूल्यांकन गुण	सत्र गुण ESC	एकूण गुण	श्रेयांक
V	DSE-MAR-1 (Elective)	मध्ययुगीन मराठी वाङ्मयाचा इतिहास	४	५५	३५	४०	७५	३
	GE-MAR-1 (Generic)	साहित्यविचार	४	५५	३५	४०	७५	३
	कौशल्य विकास अभ्यासक्रम (SEC-III)	मराठी भाषिक कौशल्ये विकास	३	४५	२५	२५	५०	२
VI	DSE MAR-2 (Elective)	मध्ययुगीन मराठी वाङ्मयाचा इतिहास	४	५५	३५	४०	७५	३
	GE-MAR-2 (Generic)	भाषाविज्ञान आणि व्याकरण	४	५५	३५	४०	७५	३
	कौशल्य विकास अभ्यासक्रम (SEC-IV)	मराठी भाषिक कौशल्ये विकास	३	४५	२५	२५	५०	२

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

बी.ए. तृतीय वर्ष श्रेयांक (CBCS) पद्धतीनुसार

विषय : मराठी (वैकल्पिक- Elective) अभ्यासक्रम

जून - २०१८ पासून लागू

सत्र - पाचवे

अभ्यासपत्रिकेचे शीर्षक - मध्ययुगीन मराठी वाङ्मयाचा इतिहास

अभ्यासपत्रिका संकेतांक -DSE-MAR-1

उद्दिष्टे:

- १) मध्ययुगीन मराठी वाङ्मयनिर्मितीच्या प्रेरणा समजून घेणे.
- २) मध्ययुगीन मराठी वाङ्मयाचे स्वरूप, परंपरा व इतिहास यांचा परिचय देणे.
- ३) मध्ययुगीन कालखंडातील वाङ्मयाच्या सामाजिक तथा सांस्कृतिक पार्श्वभूमीचा अभ्यास करणे.
- ४) मध्ययुगीन कालखंडातील विविध संप्रदायाच्या विचारधारा समजून देणे.
- ५) मध्ययुगीन कालखंडातील वाङ्मयाबद्दलची अभिरुची वाढविणे.

उपयोगिता -

- १) मध्ययुगीन कालखंडातील महत्त्वपूर्ण भक्तिसंप्रदायांची ओळख.
- २) मध्ययुगीन कालखंडातील वाङ्मयातून प्रकट झालेल्या मानवी मूल्यांचे आकलन
- ३) मध्ययुगीन मराठी वाङ्मयीन चळवळी व प्रेरणांचे आकलन.
- ४) मध्ययुगीन वाङ्मयाच्या निर्मितीवर आणि वाङ्मयाच्या स्वरूपाचे ज्ञान.
- ५) मध्ययुगीन कालखंडातील वाङ्मयीन रचना प्रकारांचा परिचय.

अभ्यासघटक :

प्रकरण १) मराठी वाङ्मयाचा आरंभकाल

अ) शिलालेख ब) ताम्रपट क) आद्यकवी मुकुंदराज

प्रकरण २) महानुभाव संप्रदायाचे साहित्य

अ) प्रेरणा व स्वरूप

ब) लीळाचरित्र क) सूत्रपाठ ड) दृष्टान्तपाठ इ) सातीग्रंथ

प्रकरण : ३ वारकरी संप्रदायाचे साहित्य

अ) प्रेरणा व स्वरूप

ब) संत नामदेव - अभंगरचना

क) संत ज्ञानेश्वर - ज्ञानेश्वरी, अमृतानुभव, चांगदेवपासष्टी, अभंगरचना

ड) संत नामदेवकालीन संत- संत निवृत्तीनाथ, संत सोपानदेव, संत मुक्ताबाई, संत जनाबाई, संत चोखामेळा, संत कर्ममेळा, संत कान्होपात्रा, संत नरहरी सोनार, संत सेना न्हावी, संत गोरा कुंभार, संत सावता माळी.

प्रकरण ४ महात्मा बसवेश्वर

अ) चरित्र ब) निवडक वचने

प्रकरण ५ संत एकनाथ

अ) भावार्थ रामायण ब) एकनाथी भागवत क) रुक्मिणी स्वयंवर

ड) भारुडे इ) गौळणी.

अभ्यासपत्रिकेचे प्रारूप

अंतर्गत मूल्यमापन (CA)

१) या सत्रात प्रत्येकी दहा गुणांच्या दोन घटक चाचण्या	३५	गुण
२) गृहपाठ (Home Assignment)	२०	गुण
३) चर्चासत्र	१०	गुण
	०५	गुण

विद्यापीठीय परीक्षा (ESE)	४०	गुण
दीर्घोत्तरी पर्यायी स्वरूपाचे तीन प्रश्न प्रत्येकी दहा गुण	३०	गुण
टीपा लिहा - चारपैकी दोन (प्रत्येकी ०५ गुण)	१०	गुण
एकूण	७५	गुण

प्रश्नपत्रिका प्रारूप :

प्रश्न १ - दीर्घोत्तरी स्वरूपाचे पर्यायी प्रश्न	१०	गुण
प्रश्न २ - दीर्घोत्तरी स्वरूपाचे पर्यायी प्रश्न	१०	गुण
प्रश्न ३ - दीर्घोत्तरी स्वरूपाचे पर्यायी प्रश्न	१०	गुण
प्रश्न ४ - टीपा लिहा - चारपैकी दोन (प्रत्येकी ०५ गुण)	१०	गुण
अंतर्गत मूल्यमापन -----	३५	गुण
एकूण	७५	गुण

संदर्भग्रंथ :

- १) प्राचीन मराठी वाङ्मयाचा विवेचक इतिहास - प्र.न. जोशी
१. प्राचीन मराठी वाङ्मयाचा इतिहास - अ.ना. देशपांडे
२. प्राचीन मराठी वाङ्मयाचा इतिहास - ल.रा. नसिराबादकर
३. प्राचीन मराठी वाङ्मयाचा स्वरूप - ह.श्री. शेणोलीकर
४. प्राचीन मराठी गद्य - श्री .रं. कुलकर्णी
५. संत वाङ्मयाची सामाजिक फलश्रुती - गं.बा. सरदार
६. प्राचीन मराठीच्या नवधारा - रा.चिं. ढेरे
७. प्राचीन मराठी साहित्य संशोधन - वि.भि. कोलते
८. पाच संतकवी - शं.गो. तुळपुळे
९. महाराष्ट्र सारस्वत (खंड १ व २) - वि.ल. भावे
१०. संत, पंत व तंत - श्री. म. माटे
११. संत तुकाराम चरित्र - ल.रा. पांगारकर
१२. महाराष्ट्र संत - कवयित्री - ज.र. आजगांवकर
१३. पाच भक्तिसंप्रदाय - र.रा. गोसावी
१४. प्राचीन गीतमंजुषा - ना.ग. जोशी (संपा)

१५. प्राचीन मराठी संत कवयित्रीचे वाङ्मयीन कार्य - सुहासिनी इर्लेकर
१६. मराठी वाङ्मयाचा इतिहास (खंड-१)- शं.गो. तुळपुळे
१७. प्राचीन महाराष्ट्र - भाग १ -- श्री .व्यं. केतकर
१८. महानुभावाचा आचारधर्म - वि.भि. कोलते
१९. महानुभाव पंथ आणि त्यांचे वाङ्मय - शं.गो. तुळपुळे
२०. महानुभावीय वाङ्मय - वा.ना. देशपांडे
२१. प्राचीन मराठी गद्य - प्रेरणा आणि परंपरा - श्री रं. कुलकर्णी
२२. महानुभाव गद्य - शं.गो. तुळपुळे
२३. नामदेवांची अभंगवाणी - हे.वि. इनामदार व इतर (संपा.)
२४. श्रीसकलसंतगाथा (खंड व१ व २) र.रा. गोसावी (संपा.)
२५. वीरशैव संतसाहित्य - राजशेखर हिरेमठ
२६. वारकरी संप्रदाय : उदय आणि विकास - रा.पं. बहिरट
२७. प्राचीन मराठी साहित्य : एक पुनर्विचार - श्री रं. कुलकर्णी
२८. यादवकालीन महाराष्ट्र - मु.ग. पानसे
२९. १२ व्या शतकातील आद्य समाजसुधारक महात्मा बसवेश्वर - अशोक मेनकुदळे
३०. महात्मा बसवेश्वर - अशोक कामत
३१. मन्हाटी लावणी - म.वा. धोंड
३२. ओवी ते लावणी - श्री. रं. कुलकर्णी
३३. तुकारामदर्शन - सदानंद मोरे
३४. श्री संत चोखामेळा - चरित्र आणि अभंग - स.भा. कदम (संपा.)
३५. सकल संतगाथा (गाथापंचक) - रा.चिं. ढेरे (संपा.)
३६. मराठी शाहिरी कविता - मनोहर जाधव व पृथ्वीराज तौर(संपा.)
३७. वारकरी व महानुभाव संप्रदाय - संतोष हंकारे
३८. संत तुकारामांच्या अभंगातील जीवनमूल्ये - डॉ. हरिदास आखरे

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

बी.ए. तृतीय वर्ष श्रेयांक (CBCS) पद्धतीनुसार

विषय : मराठी (वैकल्पिक (Generic)) अभ्यासक्रम

जून - २०१८ पासून लागू

सत्र - पाचवे

अभ्यासपत्रिकेचे शीर्षक - साहित्यविचार

अभ्यासपत्रिका संकेतांक-GE-MAR-1

उद्दिष्टे :

१. साहित्याचे स्वरूप आणि विशेष यांची ओळख करून देणे.
२. पौर्वात्य व पाश्चिमात्य काव्यशास्त्राची माहिती देणे.
३. काव्याची लक्षणे आणि प्रयोजनांची माहिती अध्ययन करणे.
४. साहित्याच्या भाषेचे स्वरूप अभ्यासणे.
५. विद्यार्थ्यांचा वाङ्मयीन दृष्टिकोन विकसित करणे.
६. भरताच्या रससूत्राचा परिचय करून देणे.

उपयोगिता-

- १) वाङ्मयीन दृष्टिकोनाचे विकसन.
- २) भारतीय साहित्यशास्त्राची ओळख.
- ३) पाश्चिमात्य साहित्यविचारांचा परिचय.
- ४) रसविचारांचे पायाभूत ज्ञान.
- ५) शब्दांच्या विविध अर्थांचे ज्ञान.

अभ्यासघटक :

- १) साहित्याचे स्वरूप आणि विशेष
- २) साहित्याचे प्रयोजन : भारतीय व पाश्चात्य
- ३) शब्दशक्तीविचार
- ४) साहित्याची भाषा
- ५) भरताचे रससूत्र

अभ्यासपत्रिकेचे प्रारूप -

अंतर्गत मूल्यमापन (CA)	३५	गुण
१) या सत्रात प्रत्येकी दहा गुणांच्या दोन घटक चाचण्या	२०	गुण
२) गृहपाठ (Home Assignment)	१०	गुण
३) चर्चासत्र	०५	गुण
विद्यापीठीय परीक्षा (ESE)	४०	गुण
दीर्घोत्तरी पर्यायी स्वरूपाचे तीन प्रश्न प्रत्येकी दहा गुण	३०	गुण
टीपा लिहा - चारपैकी दोन (प्रत्येकी ०५ गुण)	१०	गुण
एकूण	७५	गुण

प्रश्नपत्रिका प्रारूप :

प्रश्न १ - दीर्घोत्तरी स्वरूपाचे पर्यायी प्रश्न	१०	गुण
प्रश्न २ - दीर्घोत्तरी स्वरूपाचे पर्यायी प्रश्न	१०	गुण
प्रश्न ३ - दीर्घोत्तरी स्वरूपाचे पर्यायी प्रश्न	१०	गुण
प्रश्न ४ - टीपा लिहा - चारपैकी दोन (प्रत्येकी ०५ गुण)	१०	गुण
अंतर्गत मूल्यमापन -----	३५	गुण
एकूण	७५	गुण

संदर्भग्रंथ :

- १) साहित्यशास्त्र : स्वरूप व समस्या - वसंत पाटणकर
- २) भारतीय साहित्यशास्त्र - ग.त्र्यं. देशपांडे
- ३) अभिनव काव्यप्रकाश- रा.श्री. जोग
- ४) काव्यशास्त्रप्रदीप - स.रा. गाडगीळ
- ५) साहित्यविचार - दि.के. बेडेकर
- ६) अँरिस्टॉटलचे काव्यशास्त्र - गो. वि. करंदीकर
- ७) परंपरा व नवता - गो. वि. करंदीकर
- ८) साहित्यविचार - अ. वा. कुलकर्णी
- ९) भारतीय साहित्यविचार - लीला गोविलकर
- १०) रसचर्चा - पदमाकर दादेगावकर
- ११) प्लेटोचे साहित्यशास्त्र - अ. ना. देशपांडे

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

पदवी तृतीय वर्षासाठी - श्रेयांक (CBCS) पद्धतीनुसार

विषय : **मराठी कौशल्य विकास अभ्यासक्रम (Skill Enhancement Course)**

जून - २०१८ पासून लागू

सत्र - पाचवे

अभ्यासपत्रिकेचे शीर्षक - **मराठी भाषिक : कौशल्ये विकास भाग- एक**

अभ्यासपत्रिका संकेतांक-SEC-III

उद्दिष्टे :

- १) विद्यार्थ्यांच्या भाषिक क्षमतांचा विकास करणे.
- २) मराठी भाषिक कौशल्ये विकसित करणे.
- ३) मराठी भाषेचे उपयोजन व विविध क्षेत्रांतील व्यवसायाच्या संधीची माहिती करून देणे.
- ४) मराठी भाषेतील ग्रंथ प्रकाशनाचे एकूण स्वरूप समजून देणे.
- ५) मराठी भाषेची उपयुक्तता आणि वैशिष्ट्यांची ओळख करून देणे.

उपयोगिता :

- १) मराठी भाषिक क्षमतांच्या वाढीस मदत.
- २) मराठी भाषिक कौशल्ये विकासाला वाव.
- ३) विविध क्षेत्रातील व्यावसायिक संधी.
- ४) मराठी भाषेतील ग्रंथ प्रकाशनाचे स्वरूप समजून घेण्यास मदत.

अभ्यासघटक :

प्रकरण - १	मराठी भाषा कौशल्ये आणि व्यवसायाच्या संधी	१५	तासिका
	अ) मराठी भाषिक कौशल्ये - वाचन, लेखन, भाषण, संभाषण		
	ब) पटकथा, ब्लॉग लेखन वृत्तांत, अहवाल, टिप्पणी		
	इ. लेखनाचे स्वरूप	०५	तासिका
	क) विविध क्षेत्रांत व्यवसायाच्या संधी (पत्रकारिता, प्रसारमाध्यमातील कार्य)		
	ड) प्रात्यक्षिक कार्य	१०	तासिका

दृकश्राव्य माध्यमांसाठी पटकथालेखन/सहलीचा वृत्तांत/नामवंत व्यावसायिकांच्या भेटीचा अहवाल यापैकी एका घटकावर विद्यार्थ्यांकडून प्रात्यक्षिक करून घ्यावे. अथवा विद्यार्थ्यांना त्यांचा ब्लॉग तयार करून त्यावर लिहिण्यास प्रोत्साहन द्यावे.

प्रकरण - २ ग्रंथ प्रकाशनविश्व

१५ तासिका

- अ) ग्रंथनिर्मितीचा हेतू
- ब) संहितावाचन, संस्करण आणि संपादन
- क) मुद्रितशोधन, ग्रंथप्रकाशन व स्वामित्व हक्क (कॉपीराईट) ०५ तासिका
- ड) ग्रंथवितरण अ) पारंपरिक ब) आधुनिक
- इ) वाचकांची अभिरुची
- ई) ग्रंथपुरस्कार
- इ) प्रात्यक्षिक कार्य

१० तासिका

आपल्या परिसरातील वाचनालयास भेट / प्रकाशनसंस्थेस भेट / ग्रंथवितरकांशी वार्तालाप / ग्रंथसजावट करणारांशी (चित्रकार/ मुखपृष्ठ तयार करणारे कलावंत) संवाद / ग्रंथप्रकाशन सोहळ्याची निमंत्रण पत्रिका तयार करणे, ग्रंथपुरस्कार संस्था व वाचकांची आवड-निवड इ.

प्रकरण - ३ ग्रंथपरीक्षण

१५ तासिका

- अ) आस्वाद
- ब) आकलन
- क) मूल्यमापन
- ड) प्रात्यक्षिक कार्य

०५ तासिका

१० तासिका

प्रत्येक विद्यार्थ्यांकडून किमान एका पुस्तकाचे परीक्षण करून घ्यावे.

प्रश्नपत्रिकेचे प्रारूप

मूल्यमापन (ESE) २५ गुण

१. कौशल्ये विकास प्रकल्प कार्य १० गुण
२. कौशल्ये मूल्यांकन १० गुण
३. कौशल्ये कार्याचे सादरीकरण ०५ गुण

मूल्यमापन (CA) २५ गुण

१. मराठी भाषाकौशल्ये आणि व्यवसायाच्या संधी
 २. ग्रंथ प्रकाशनविश्व
 ३. ग्रंथपरीक्षण
- अ) वरील अभ्यास घटकांवर घटक चाचणी (Unit Test)-१ व २ २० गुण
प्रत्येकी १० गुणांच्या घेण्यात याव्यात.

ब) चर्चासत्र - १ ०५ गुण

टीप : मराठी भाषिक कौशल्ये : विकास - (संपादक - डॉ. पृथ्वीराज तौर) हे पुस्तक या अभ्यासपत्रिकेसाठी नेमण्यात आले आहे.

संदर्भग्रंथसूची :

१. व्यावहारिक उपयोजित मराठी आणि प्रसारमाध्यमे - संपादक डॉ. संदीप सांगळे, डायमंड पब्लिकेशन, पुणे.
२. व्यावहारिक मराठी - प्रा. मोकाशी, प्रा. नेमाडे, शेतकरी साहित्य परिषद.
३. व्यावहारिक मराठी - संपादक डॉ. स्नेहल तावरे, स्नेहवर्धन, प्रकाशन पुणे.
४. उपयोजित मराठी - भाग-२, डॉ. प्रकाश मेदककर, सुविद्या प्रकाशन.
५. जाहिरातीचं जग - यशोदा भागवत, मौज प्रकाशन, मुंबई
६. पत्रकारितेची मूलतत्त्वे - प्रभाकर पाध्ये (अनुवाद) प्र. ना. परांजपे, वसुधा परांजपे, मेहता पब्लिशिंग हाऊस, पुणे
७. वाणिज्य मित्र - डॉ. स्वाती दामोदरे

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

बी.ए. तृतीय वर्ष श्रेयांक (CBCS) पद्धतीनुसार

विषय : मराठी (वैकल्पिक- Elective) अभ्यासक्रम

जून - २०१८ पासून लागू

सत्र - सहावे

अभ्यासपत्रिकेचे शीर्षक - मध्ययुगीन मराठी वाङ्मयाचा इतिहास

अभ्यासपत्रिका संकेतांक-DSE-MAR-2

उद्दिष्टे:

- १) मध्ययुगीन मराठी वाङ्मयनिर्मितीच्या प्रेरणा समजून घेणे.
- २) मध्ययुगीन मराठी वाङ्मयाचे स्वरूप, पंरपरा व इतिहास यांचा परिचय देणे.
- ३) मध्ययुगीन कालखंडातील वाङ्मयाच्या सामाजिक तथा सांस्कृतिक पार्श्वभूमीचा अभ्यास करणे.
- ४) मध्ययुगीन कालखंडातील विविध संप्रदायांच्या विचारधारा समजून देणे.
- ५) मध्ययुगीन कालखंडातील वाङ्मयाबद्दलची अभिरुची वाढविणे.

उपयोगिता -

- १) मध्ययुगीन कालखंडातील महत्वपूर्ण भक्तिसंप्रदायांची ओळख .
- २) मध्ययुगीन कालखंडातील वाङ्मयातून प्रकट झालेल्या मानवी मूल्यांचे आकलन
- ३) मध्ययुगीन मराठी वाङ्मयीन चळवळी व प्रेरणांचे आकलन.
- ४) मध्ययुगीन वाङ्मयाच्या निर्मितीचे आणि वाङ्मयाच्या स्वरूपाचे ज्ञान.
- ५) मध्ययुगीन कालखंडातील वाङ्मयीन रचनाप्रकारांचा परिचय.

घटक :

प्रकरण : १) संत तुकाराम

अ) चरित्र ब) अभंगरचना

प्रकरण : २) संत रामदास

अ) दासबोध ब) मनाचे श्लोक

प्रकरण : ३) पंडिती कवी

अ) मुक्तेश्वर ब) वामनपंडित क) मोरोपंत

प्रकरण : ४) शहिरी वाङ्मय

अ) प्रेरणा व स्वरूप

ब) राम जोशी क) होनाजी बाळा क) अनंतफंदी

प्रकरण : ५) बखर वाङ्मय

अ) प्रेरणा व स्वरूप ब) कृष्णाजी अनंत सभासदांची बखर

ब) भाऊसाहेबांची बखर

अभ्यासपत्रिकेचे प्रारूप

अंतर्गत मूल्यमापन (CA)	३५	गुण
१) या सत्रात प्रत्येकी दहा गुणांच्या दोन घटक चाचण्या	२०	गुण
२) गृहपाठ (Home Assignment)	१०	गुण
३) चर्चासत्र	०५	गुण
विद्यापीठीय परीक्षा (ESE)	४०	गुण
दीर्घोत्तरी पर्यायी स्वरूपाचे तीन प्रश्न प्रत्येकी दहा गुण	३०	गुण
टीपा लिहा - चारपैकी दोन (प्रत्येकी ०५ गुण)	१०	गुण
एकूण	७५	गुण

प्रश्नपत्रिका प्रारूप :

प्रश्न १ - दीर्घोत्तरी स्वरूपाचे पर्यायी प्रश्न	१०	गुण
प्रश्न २ - दीर्घोत्तरी स्वरूपाचे पर्यायी प्रश्न	१०	गुण
प्रश्न ३ - दीर्घोत्तरी स्वरूपाचे पर्यायी प्रश्न	१०	गुण
प्रश्न ४ - टीपा लिहा - चारपैकी दोन (प्रत्येकी ०५ गुण)	१०	गुण
अंतर्गत मूल्यमापन	-----	३५ गुण
एकूण	७५	गुण

संदर्भग्रंथ :

१. प्राचीन मराठी वाङ्मयाचा विवेचक इतिहास - प्र.न. जोशी
२. प्राचीन मराठी वाङ्मयाचा इतिहास - अ.ना. देशपांडे
३. प्राचीन मराठी वाङ्मयाचा इतिहास- ल.रा. नसिराबादकर
४. प्राचीन मराठी वाङ्मयाचा स्वरूप - ह.श्री. शेणोलीकर
५. प्राचीन मराठी गद्य -श्री .रं. कुलकर्णी
६. संत वाङ्मयाची सामाजिक फलश्रुती - गं.बा. सरदार
७. प्राचीन मराठीच्या नवधारा - रा.चिं. ढेरे
८. प्राचीन मराठी वाङ्मयाचा परामर्श - श्री. मं. पिंगे
९. प्राचीन मराठी साहित्य संशोधन - वि.भि. कोलते
१०. पाच संतकवी - शं.गो. तुळपुळे
११. महाराष्ट्र सारस्वत (खंड १ व २) - वि.ल. भावे
१२. संत, पंत व तंत - श्री. म. माटे
१३. संत तुकाराम चरित्र - ल.रा. पांगारकर
१४. महाराष्ट्र संत - कवयित्री - ज.र. आजगांवकर
१५. पाच भक्तिसंप्रदाय - र.रा. गोसावी
१६. प्राचीन गीतमंजुषा - ना.ग. जोशी (संपा)
१७. प्राचीन मराठी संत कवयित्रीचे वाङ्मयीन कार्य - सुहासिनी इर्लेकर
१८. मराठी वाङ्मयाचा इतिहास (खंड-१)- शं.गो. तुळपुळे
१९. प्राचीन महाराष्ट्र - भाग १ - श्री .व्यं. केतकर
२०. महानुभावाचा आचारधर्म - वि.भि. कोलते
२१. महानुभाव पंथ आणि त्यांचे वाङ्मय - शं.गो. तुळपुळे
२२. महानुभावीय वाङ्मय - वा.ना. देशपांडे
२३. प्राचीन मराठी गद्य - प्रेरणा आणि परंपरा - श्री रं. कुलकर्णी
२४. महानुभाव गद्य - शं.गो. तुळपुळे

२५. प्राचीन मराठी आख्यानकाव्य - गजमल माळी
२६. नामदेवांची अभंगावाणी - हे.वि. इनामदार व इतर (संपा.)
२७. श्रीसकलसंतगाथा (खंड व१ व २) र.रा. गोसावी (संपा.)
२८. वीरशैव संतसाहित्य - राजशेखर हिरेमठ
२९. वारकरी संप्रदाय : उदय आणि विकास - रा.पं. बहिरट
३०. प्राचीन मराठी साहित्य : एक पुनर्विचार - श्री रं. कुलकर्णी
३१. यादवकालीन महाराष्ट्र - मु.ग. पानसे
३२. १२ व्या शतकातील आद्य समाजसुधारक महात्मा बसवेश्वर-अशोक मेनकुदळे
३३. महात्मा बसवेश्वर - अशोक कामत
३४. मन्हाटी लावणी - म.वा. धोंड
३५. ओवी ते लावणी - श्रीधर रंगनाथ कुलकर्णी
३६. श्री संत चोखामेळा - चरित्र आणि अभंग - स.भा. कदम (संपा.)
३७. सकल संतगाथा (गाथापंचक) - रा.चिं. ढेरे (संपा.)
३८. मराठी शाहिरी कविता - मनोहर जाधव व पृथ्वीराज तौर(संपा.)
३९. वारकरी व महानुभाव संप्रदाय - संतोष हंकारे

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

बी.ए. तृतीय वर्ष श्रेयांक (CBCS) पद्धतीनुसार

विषय : मराठी (वैकल्पिक- Generic) अभ्यासक्रम

जून - २०१८ पासून लागू

सत्र - सहावे

अभ्यासपत्रिकेचे शीर्षक - भाषाविज्ञान व व्याकरण

अभ्यासपत्रिका संकेतांक-GE-MAR-2

उद्दिष्टे :

- १) मराठी भाषेची अभिरूची वाढविणे.
- २) मराठी भाषेचे शास्त्रशुद्ध स्वरूप समजून देणे.
- ३) भाषेचे स्वरूप- कार्य समजावून सांगणे.
- ४) भाषिक परिवर्तनाची कारणमीमांसा शोधणे.
- ५) ऐतिहासिक भाषाविज्ञानाचा परिचय करून देणे.
- ६) प्रयोगविचार व विभक्तिविचार यांचा अभ्यास करणे.

उपयोगिता -

- १) भाषिक ज्ञानाची वृद्धी.
- २) मराठी भाषेच्या इतिहासाची ओळख.
- ३) लेखनविषयक सजगता.
- ४) मराठी व्याकरणिक घटकांचे ज्ञान.

घटक :

१. भाषेचे स्वरूप व कार्ये
२. भाषिक परिवर्तन - ध्वनिपरिवर्तन व अर्थपरिवर्तन
३. प्रमाणभाषा व बोलीभाषा
४. विभक्तिविचार
५. प्रयोगविचार

अभ्यासपत्रिकेचे प्रारूप

अंतर्गत मूल्यमापन (CA)	३५	गुण
१) या सत्रात प्रत्येकी दहा गुणांच्या दोन घटक चाचण्या	२०	गुण
२) गृहपाठ (Home Assignment)	१०	गुण
३) चर्चासत्र	०५	गुण
विद्यापीठीय परीक्षा (ESE)	४०	गुण
दीर्घोत्तरी पर्यायी स्वरूपाचे तीन प्रश्न प्रत्येकी दहा गुण	३०	गुण
टीपा लिहा - चारपैकी दोन (प्रत्येकी ०५ गुण)	१०	गुण
एकूण	७५	गुण

प्रश्नपत्रिका प्रारूप :

प्रश्न १ - दीर्घोत्तरी स्वरूपाचे पर्यायी प्रश्न	१०	गुण
प्रश्न २ - दीर्घोत्तरी स्वरूपाचे पर्यायी प्रश्न	१०	गुण
प्रश्न ३ - दीर्घोत्तरी स्वरूपाचे पर्यायी प्रश्न	१०	गुण
प्रश्न ४ - टीपा लिहा - चारपैकी दोन (प्रत्येकी ०५ गुण)	१०	गुण
अंतर्गत मूल्यमापन -----	३५	गुण
एकूण	७५	गुण

संदर्भग्रंथ :

- १) मराठीचे ऐतिहासिक भाषाशास्त्र - र.रा. गोसावी
- २) मराठी भाषा : व्यवस्था आणि अध्यापन - चंद्रकांत इंदापूरकर
- ३) ध्वनिविचार - ना.गो. कालेलकर
- ४) भाषा आणि संस्कृती - ना.गो. कालेलकर
- ५) भाषा, इतिहास व भूगोल - ना.गो. कालेलकर
- ६) मराठी भाषेचा आर्थिक संसार - अशोक केळकर
- ७) मराठी भाषा : उद्गम व विकास - कृ. पां. कुलकर्णी
- ८) भाषाविज्ञान : वर्णनात्मक आणि ऐतिहासिक - संपा. मालसे, इनामदार व सोमण
- ९) सुबोध भाषाशास्त्र - प्र. न. जोशी
- १०) शुद्धलेखनाचे नियम- महाराष्ट्र शासनाची प्रत
- ११) मराठी व्याकरणाचा पुनर्विचार - अ.ग. मंगरूळकर
- १२) सुलभ मराठी व्याकरण लेखन - मो.रा.वाळिंबे
- १३) शास्त्रीय मराठी व्याकरण - मो.के. दामले
- १४) अभिनव मराठी व्याकरण - प्र.न. जोशी
- १५) मराठी व्याकरण - लीला गोविलकर
- १६) प्रमाण मराठी भाषेचे स्वरूप - सुहासिनी लडू
- १७) बोली भाषांचा अभ्यास - सु. बा. कुलकर्णी
- १८) मराठी शुद्धलेखनप्रदीप - मो.रा.वाळिंबे
- १९) आधुनिक भाषाविज्ञान सिद्धांत व उपयोजन- मिलिंद मालशे
- २०) ग्रामीण कादंबरी :मराठवाडी बोलीचे स्वरूप- डॉ. विठ्ठल जंबाले

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड
पदवी तृतीय वर्षासाठी - श्रेयांक (CBCS) पद्धतीनुसार
विषय : **मराठी कौशल्य विकास अभ्यासक्रम (Skill Enhancement Course)**
जून - २०१८ पासून लागू
सत्र - सहावे
अभ्यासपत्रिकेचे शीर्षक - **मराठी भाषिक कौशल्ये विकास** भाग- दोन
अभ्यासपत्रिका संकेतांक-SEC-IV

उद्दिष्टे :

- १) कार्यक्रम आयोजनातील अडथळे लक्षात आणून देणे.
- २) देहबोलीचे महत्त्व समजावून सांगणे.
- ३) देहबोलीचा संभाषणात कसा वापर करावा, याबद्दलची माहिती देणे.
- ४) मुद्रितशोधनाचे स्वरूप आणि संकल्पना समजावून सांगणे.
- ५) प्रमाण मराठी लेखनाच्या नियमाबद्दल ज्ञानात्मक जाणीव निर्माण करणे.
- ६) मुद्रितशोधनाचे प्रात्यक्षिक कार्य अनुभवणे.

उपयोगिता :

- १) विविध प्रकारच्या कार्यक्रमांचे आयोजन.
- २) विविध क्षेत्रांतील व्यवसायांच्या संधी.
- ३) देहबोलीच्या वापरातून प्रभावी संभाषण.
- ४) मुद्रितशोधनासाठीचे कौशल्ये विकसन.
- ५) प्रमाण मराठीच्या नियमांचा लेखनामध्ये उपयोजन.

अभ्यासघटक :

प्रकरण - १	कार्यक्रमाचे आयोजन	१५	तासिका
	अ) वाङ्मयीन ब) सांस्कृतिक		
	क) सामाजिक क) शैक्षणिक	०५	तासिका
	इ) प्रात्यक्षिक कार्य	१०	तासिका

महाविद्यालयीन पातळीवर कविसंमेलन / स्वागत समारंभ / निरोप समारंभ / प्रबोधनपर कार्यक्रम / विविधगुणदर्शन कार्यक्रम / व्याख्यान आयोजन इत्यादी कार्यक्रम आयोजन करण्यासाठी विद्यार्थ्यांना संधी उपलब्ध करून देणे.

प्रकरण - २	देहबोली आणि संभाषण कौशल्ये	१५	तासिका
	अ) देहबोलीचे पैलू		
	ब) संभाषण कौशल्याचे गुणविशेष	०५	तासिका
	क) प्रभावी संभाषणात देहबोलीचा वापर		
	ड) प्रात्यक्षिक कार्य	१०	तासिका
	संभाषण कौशल्य विकसित होतील अशा कार्यक्रमांचे आयोजन करणे		

प्रकरण - ३	मुद्रितशोधन आणि प्रमाण मराठी लेखन	१५	तासिका
	अ) मुद्रितशोधन : संकल्पना, स्वरूप, प्रकार आणि महत्त्व	०५	तासिका
	ब) प्रमाण मराठी लेखनविषयक नियम		
	क) मुद्रितशोधनाचे प्रात्यक्षिक कार्य	१०	तासिका

कथा, कादंबरी, नाटक इत्यादी वाङ्मयप्रकारांपैकी उतारा देऊन मुद्रितशोधन विद्यार्थ्यांकडून करवून घेणे.

प्रश्नपत्रिकेचे प्रारूप

मूल्यमापन (ESE)	२५	गुण
१. कौशल्ये विकास प्रकल्पकार्य	१०	गुण
२. कौशल्ये मूल्यांकन	१०	गुण
३. कौशल्ये कार्याचे सादरीकरण	०५	गुण
मूल्यमापन (CA)	२५	गुण
१. कार्यक्रमाचे आयोजन		
२. देहबोली आणि संभाषण कौशल्य		
३. मुद्रितशोधन आणि प्रमाण मराठी लेखन		

- अ) वरील अभ्यास घटकांवर घटक चाचणी (Unit Test)- १ व २ २० गुण
प्रत्येकी १० गुणांच्या घेण्यात याव्यात.
- ब) चर्चासत्र - १ ०५ गुण

टीप : मराठी भाषिक कौशल्ये : विकास - (संपादक - डॉ. पृथ्वीराज तौर) हे पुस्तक या
अभ्यासपत्रिकेसाठी नेमण्यात आले आहे.

संदर्भग्रंथसूची :

१. व्यावहारिक उपयोजित मराठी आणि प्रसारमाध्यमे - संपादक डॉ. संदीप सांगळे,
डायमंड पब्लिकेशन, पुणे.
२. व्यावहारिक मराठी - प्रा. मोकाशी, प्रा. नेमाडे, शेतकरी साहित्य परिषद.
३. व्यावहारिक मराठी - संपादक डॉ. स्नेहल तावरे, स्नेहवर्धन, प्रकाशन पुणे.
४. उपयोजित मराठी - भाग-२, डॉ. प्रकाश मेदककर, विद्या बुक्स, औरंगाबाद.
५. जाहिरातीचं जग - यशोदा भागवत, मौज प्रकाशन, मुंबई
६. पत्रकारितेची मूलतत्त्वे - प्रभाकर पाध्ये (अनुवाद) प्र. ना. परांजपे, वसुधा परांजपे,
मेहता पब्लिशिंग हाऊस, पुणे
७. वाणिज्य मित्र - डॉ. स्वाती दामोदरे

* * * * *



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड— ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

Established on 17th September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



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मानवविज्ञान विद्याशाखेतील पदवी
स्तरावरील तृतीय वर्षाचे CBCS Pattern
नुसारचे अभ्यासक्रम शैक्षणिक वर्ष
२०१८-१९ पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक १४ जून २०१८ रोजी संपन्न झालेल्या ४१व्या मा. विद्या परिषद बैठकीतील विषय क्र.११/४१-२०१८ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील तृतीय वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१८-१९ पासून लागू करण्यात येत आहेत.

- १) इंग्रजी
- २) हिंदी
- ३) कन्नड
- ४) मराठी
- ५) पाली
- ६) संस्कृत
- ७) उर्दू
- ८) अर्थशास्त्र
- ९) भूगोल
- १०) इतिहास
- ११) सैनिकशास्त्र
- १२) तत्त्वज्ञान
- १३) राज्यशास्त्र
- १४) लोकप्रशासन
- १५) समाजशास्त्र

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदवी-सीबीसीएस अभ्यासक्रम/
२०१८-१९/२५२

दिनांक : २५.०६.२०१८.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, यू.जी.सी. कक्ष, प्रस्तुत विद्यापीठ.

स्वाक्षरित /—

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग



**SWAMI RAMANAND TEERTH
MARATHWADA UNIVERSITY, NANDED**

FACULTY OF HUMANITIES

POLITICAL SCIENCE

SYLLABUS

B.A. THIRD YEAR

SEMESTER V & VI

SEMESTER PATTERN

Choice Based Credit System (CBCS)

(With effect from June - 2018)

UGC Approach for CBCS

The University Grants Commission (UGC) has initiated several measures to bring equity, efficiency and excellence in the Higher Education System of country. The important measures taken to enhance academic standards and quality in higher education include innovation and improvements in curriculum, teaching-learning process, examination and evaluation systems, besides governance and other matters.

The UGC formulated various regulations and guidelines from time to time to improve the higher education system and maintain minimum standards and quality across the Higher Educational Institutions (HEIs) in India. The academic reforms recommended by the UGC in the recent past have led to overall improvement in the higher education system. However, due to lot of diversity in the system of higher education, there are multiple approaches followed by universities towards examination, evaluation and grading system. While the HEIs must have the flexibility and freedom in designing the examination and evaluation methods that best fits the curriculum, syllabi and teaching-learning methods, there is need to devise a sensible system for awarding the grades based on the performance of students. Presently the performance of the students is reported using the conventional system of marks secured in the examination or grades or both. The conversion from marks to letter grades used vary widely across the HEIs in the country. This creates difficulty for the academia and the employers to understand and infer the performance of the students graduating from different universities and colleges based on grades.

The grading system is considered to be better than the conventional marks system and hence it has been followed in the top institutions in Indian and abroad. So it is desirable to introduce uniform grading system. This will facilitate student's mobility across institutions within and across countries and also enable potential employers to assess the performance of students. To bring in the desired uniformity, in grading system and method for computing the cumulative grade point average (CGPA) based on the performing of students in the examinations, the UGC has formulated these guidelines.

CHOICE BASED CREDIT SYSTEM (CBCS):

The Choice Based Credit System (CBCS) provides a 'cafeteria' approach in which the student can take courses of their choice, learnt at their own pace, undergo additional courses and acquire more than the required credits. CBCS will facilitate student mobility across institutions within the country and across other country; also it will help the potential employer to assess the performance of the students in a better way. Many of the students are eager to pursue their undergraduate courses under the choice based credit system (CBCS). CBCS represents a shift in focus from teaching based to learning education since the workload is based on investment of time in learning CBCS offers more flexibility to students by allowing them to choose interdisciplinary courses along with major courses which would make education more broad based

The CBCS provides an opportunity for the students to choose courses from the prescribed courses comprising core, elective/minor or skill based courses. The courses can be evaluated following the grading system, which is considered to be better than the conventional marks system. Therefore, it is necessary to introduce uniform grading system in the entire higher education in India. This will benefit the students to move across institutions within India to begin with and across countries. The uniform grading system will also enable potential employers in assessing the performance of the candidates. In order to bring uniformity in evaluation system and computation of the Cumulative Grade Point Average (CGPA) based on student's performance in examinations, the UGC has formulated the guidelines to be followed.

Outline of Choice Based Credit System:

- 1) **Core Course:** A course, which should compulsorily be studied by a candidate as a core requirement is termed as a Core course.
- 2) **Elective Course:** Generally a course which can be chosen from a pool of courses and which may be very specific or specialized or advanced or supportive to the discipline/subject of study or which provides an extended scope or which enables an exposure to some other discipline/subject/domain or nurtures the candidate's proficiency/skill is called an Elective Course.

2.1 Discipline Specific Elective (DSEC) Course: Elective courses may be offered by the main discipline/subject of study is referred to as Discipline Specific Elective. The University/Institute may also offer discipline Elective

courses of interdisciplinary nature (to be offered by main discipline/subject of study)

2.2 Dissertation / Project: An elective course designed to acquire Special/advanced knowledge, such as supplement study/support to a project work, and a candidate studies such a course on his own with an advisory support by a teacher/faculty member is called dissertation/project.

2.3 Generic Elective (GEC) Course: An elective course chosen Generally from an unrelated discipline/subject, with an intention to seek exposure is called a Generic Elective.

P.S.: A core course offered in a discipline/subject may be treated as an elective by other discipline/subject and vice versa and such electives may also be referred to as Generic Elective.

3) Ability Enhancement Courses (AEC) / Competency Improvement

Courses / Skill Development Courses/Foundation Course: The Ability Enhancement Courses (AE) Courses may be of two kinds: AE Compulsory Course (AECC) and AE Elective Course (AEEC). “AECC” courses are the courses based upon the content that leads to Knowledge enhancement. The (i) Environmental Science (ii) English/MIL Communication) are mandatory for all disciplines. AEEC courses are value-based and/or skill-based and are aimed to providing hands-on-training, competencies, skills etc.

3.1 AE Compulsory Course (AECC): Environmental Science, English Communication/MIL Communication

3.2 AE Elective Course (AEEC): These courses may be chosen from a pool of courses designed to provide value-based and / or skill-based instruction

Project work / Dissertation are considered as a special involving application of knowledge in solving / analyzing / exploring a real life situation / difficult problem. A Project/Dissertation work would be of 6 credits. A Project/Dissertation work may be given in lieu of a discipline specific elective paper.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Choice Based Credit System (CBCS) Course Structure

Faculty of Humanities

B

.A. Third Year Syllabus

Semester pattern with effect from June-2018

SUBJECT: POLITICAL SCIENCE

Semester	Core Course	Paper No.	Name of Paper	Lectures Per Week	Total No. of Lectures	CA	ESE	Total Marks	Credit
SEM-V	DSE-POL SCI	I	Indian Political Thought OR India's Foreign Policy	4	55	35	40	75	3
	GE-POL SCI	I	Western Political Thinker	4	55	35	40	75	3
	SEC	III	Indian Parliamentary Procedure	3	45	25	25	50	2
	Total			11	155	95	105	200	8
SEM-VI	DSE- POL SCI	II	Political Ideology Or Political Sociology	4	55	35	40	75	3
	GE-POL SCI	II	Modern Political Analysis	4	55	35	40	75	3
	SEC	IV	Indian Democracy & Good Governance	3	45	25	25	50	2
	Total			11	155	95	105	200	8
	GRAND TOTAL			22	310	190	210	400	16

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
Choice Based Credit System (CBCS) Course Structure
Faculty of Humanities
B.A. Third Year Political Science
CBCS Paper Pattern
Semester pattern with effect from June-2018

Semester-V

Course Name	Title of the paper	Continuous Assessment (CA)	End of Semester Exam (ESE)	Total Marks	Credit
DSE- POL SCI – I	Indian Political Thought Or India's Foreign Policy	35	40	75	03
GE- POL SCI – I	Western Political Thinker	35	40	75	03
SEC- III	Indian Parliamentary Procedure	25	25	50	02
	Total	95	105	200	08

Semester-VI

Paper No.	Title of the paper	Continuous Assessment (CA)	End of Semester Exam (ESE)	Marks	Credit
DSE- POL SCI - II	Political Ideology Or Political Sociology	35	40	75	3
GE-POL SCI -II	Modern Political Analysis	35	40	75	3
SEC-IV	Indian Democracy & Good Governance	25	25	50	02
	Total	95	105	200	08

Exam Pattern

DSE (Discipline Specific Elective Course)+ GE (Generic Elective Course)

C.A.	-	35 Marks
		(Two class test each for 10 marks and one home Assignment or dissertation/project for 15 marks)
ESE	-	40 Marks
		(University theory exam for 40 Marks for descriptive questions)

SEC (Skill Enhancement Course)

C.A.	-	25 Marks
		15 marks for seminar and two test for 10 marks
		Each test of 5 marks
ESE	(End of Semester Exam)	
	-	Total 25 Marks (To submit one)
		10 marks for skill work report submission
		10 marks for overall skill judgment
		05 marks for skill work presentation

(ESE) End of Semester Exam will be conduct under the external examiner into the university panel.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

DSE & GE
End of Semester Exam (ESE)
FACULTY OF HUMANITIES
B.A. THIRD YEAR POLITICAL SCIENCE

Question Paper Pattern
With effect from June 2018

Time: 02 Hrs.

Marks: 40

Descriptive Pattern

- | | | | |
|----|------|-----------------------------|-----------|
| Q. | 1) | Descriptive questions. | 10 Marks |
| | | Or | |
| | | Descriptive question. | |
| Q. | 2) | Descriptive questions. | 10 Marks |
| | | Or | |
| | | Descriptive question. | |
| Q. | 3) | Descriptive questions. | 10 Marks |
| | | Or | |
| | | Descriptive question. | |
| Q. | 4) | Write short notes (Any two) | 10 marks. |
| | i) | | |
| | ii) | | |
| | iii) | | |
| | iv) | | |

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
POLITICAL SCIENCE
Effective from June - 2018
Class: B.A. THIRD YEAR
(CBCS Pattern)
Semester -V
Paper Title: INDIAN POLITICAL THOUGHT
Paper-I
(Discipline Specific Elective Course)
DSE - POL. SCI.

Credit: 03

Periods: 55

Marks: 75

Course Rationale

This is an introductory paper to the concept, ideas and theories developed in India. It deals with the main sources of the political traditions in modern India and focuses the development of social Institution and as well as various patterns of politics that emerged in modern India.

Utility of Course

This course will encourage students to understand and decipher the diverse and often contesting ways in which the ideas of nationalism, democracy and social transformation were discussed in Pre and Post-independence India.

Learning Objective

The main objective to study this paper is to understand key thinker's seminal contribution to the evolution of political theorizing in India.

Course Content

		Periods	Marks
1)	B.G. Tilak (1856-1920)	-15-	-20-
	1.1 Views on Social Reforms		
	1.3 Chatusutri		
	1.4 Nationalism-Critical Appreciation of Tilak's Views on Nationalism		

2)	M.K. Gandhi (1869-1948)	-15-	-20-
	2.1 Views on truth and non violence		
	2.2 Satyagrah		
	2.3 Thoughts on State		
	2.4 Critique of Western Civilization		
3)	Dr. B.R. Ambedkar (1891-1956)	-15-	-20-
	3.1 Nation and Nationalism		
	3.2 Thoughtson Social Democracy		
	3.3 State Socialism		
	3.4 Critique of Caste System		
4)	M.N. Roy (1887-1954)	-10-	-15-
	4.1 Thoughts on Marxism		
	4.2 Roy and Gandhism		
	4.3 Radical Humanism		
	4.4 Roy and Nationalism		

Readings (English, Hindi & Marathi):

1. A Appadorai, Documents on Political Thoughts in Modern India, 2 Vol., Bombay Oxford University Press, 1970
2. J.V. Bondurant, Conquest of Violence: The Gandhian Philosophy of Conflict, Berkely, University of California Press, 1965.
3. R.J. Cashman, the Myth of the lokmanya Tilak and Mass Politics in Maharashtra, Berkeley, University of California Press, 1975.
4. R. Lyer, the Moral & Political Thoughts of Mahatma Gandhi, Delhi Oxford University Press, 1973.
5. M.J. Kanetkar, Tilak & Gandhi: A Comparative Study, Nagpur, Author, 1935. B.R. Nanda,
6. Gokhale, Gandhi and Nehrus: Studies in Indian Nationalism, London, Allen and Unwin, 1974.
7. G Omvelt, Dalits and the Democratic Revolution: Dr. Ambedkar & Dalit Movement in Colonial India, New, Delhi, Sage, 1994.
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17. Prakash Chandra, Political Philosophy of M.N. Roy, Sarup & Sons, New Delhi, 1992.
18. Shri. Ram Bakshi, M. N. Roy, Amol Publication, New Delhi, 1994.
19. N.R. Basannavar, The Indian in the Comintern, Dissertation, University, Bristol, 2007.
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22. Syamales Das, M.M. Roy Biplabi, Rajnitik O Darshonik Calcutta: Sribhumi Publishing Co., 1999.
23. फाडीया बी.एल., आधुनिक राजनीतिक चिन्तन का इतिहास, साहित्यभवन पब्लिकेशन, आगरा, दिल्ली.
24. शर्मा उर्मिता, शर्मा एस.के., भारतीय राजनैतिक चिंतन, अटलान्टीक प्रकाशन, दिल्ली.
25. भोळे भा.ल., आधुनिक भारतीय राजकीय विचारवंत, पिंपळापुरे प्रकाशन, नागपूर, १९९१
26. आघाव विलास, ढाले सुखनंदन व शेवाळे रमेश, भारतीय राजकीय विचारवंत, चिन्मय प्रकाशन, औरंगाबाद, २०१४
27. कुलकर्णी व्ही.जी., कांत सोमवशी, भारतीय राजकीय विचारवंत, कैलाश पब्लिकेशन्स, औरंगाबाद, २००८
28. बोरालकर कृ.दि., आधुनिक भारतीय राजकीय विचारवंत, पिंपळापुरे पब्लिशर्स, औरंगाबाद, १९८८
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30. देवरे पी.डी. व इतर, आधुनिक भारतीय राजकीय विचारवंत, प्रशांत पब्लिकेशन, पुणे, २००४
31. शृंगारपुरे अरविंद, निवडक भारतीय राजकीय विचारवंत, श्री. विद्या प्रकाशन नागपूर, २००३.
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34. शिंदे ज.रा., आधुनिक भारतीय राजकीय विचारवंत, कैलाश पब्लिकेशन्स, औरंगाबाद, १९८८
35. आघाव नवनाथ, तांदळे दिनकर, बिराजदार एस.ई., भारतीय राजकीय विचारवंत, कैलाश पब्लिकेशन्स, औरंगाबाद, २००६
36. देवगावकर श.गो., राजकीय विचारवंत, श्री. साईनाथ प्रकाशन, नागपूर, २००७

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
POLITICAL SCIENCE
Effective from June - 2018
Class: B.A. THIRD YEAR
(CBCS Pattern)
Semester –V
OR
Paper Title: INDIA'S FOREIGN POLICY
Paper-I
(Discipline Specific Elective Course)
DSE - POL. SCI.

Credit: 03

Periods: 55

Marks: 75

Course Rational

This paper deals with foundations, phases and India's Relations with major countries as well as neighbours around her. It seeks to search and ascertain the he major issues and debates in the field of Indian foreign policy and probe India's complex relationship, both bilateral and multilateral with other countries.

Utility of Course

This Course will encourage the student to undertake an n depth analysis of India's foreign policy.

Learning Objective

The main objective of this paper is to familiar students with change and continuity, major issues and debates in India's foreign policy.

Course content

	Periods	Marks
1) Foreign Policy	-15-	-15-
1.1 Meaning, Definition and Nature		
1.3 Objectives and Principles		
1.4 Determinants of India's foreign Policy		
2) Phases of India's Foreign Policy	-15-	-20-
2.1 Pre-independence era		
2.2 Post-independence		
2.3 And after 1990		
3) India's Relations with Major Countries	-15-	-20-
3.1 India and U. S. A.		
3.2 India and Russia		
3.3 India and China		

4) **India's Relations with Neighbour Countries** -10- -20-

- 4.1 India-Pakistan Relations
- 4.2 India-Sri Lanka Relations
- 4.3 India-Bangladesh Relations

Readings (English, Hindi & Marathi):

- 1) Appadorai, A and M.S. Rajan, "India's Foreign Policy and Relation", South Asia Pub., New Delhi, 1988
- 2) Arora, Prem, "India's Foreign Policy" Cosmos, Bookhive, 2000.
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- 4) Bhola, P.L., "Foreign Policies of India, Pakistan and China", RBSA Publishers, S.M.S. Highway, Jaipur, 2003.
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- 14) दिवाण चंद्रशेखर, भारताची विदेशनीती, विद्या प्रकाशन, नागपूर, १९९२.
- 15) दुभाषी पद्माकर, भारताचे परराष्ट्र धोरण, श्रीविद्या प्रकाशन, पुणे, २००३.
- 16) देवळाणकर शैलेंद्र, समकालीन जागतिक राजकारणातील प्रमुख प्रश्न, विद्या प्रकाशन, औरंगाबाद, २००५.
- 17) आघाव विलास, कदम माधव, भारताचे परराष्ट्र धोरण, क्रिएटिव्ह पब्लिकेशन, नांदेड, २०१८.
- 18) साबळे आर.डी., भारताचे परराष्ट्र धोरण, कल्पना प्रकाशन, नांदेड, १९९८.
- 19) लोटे रा.ज., भारताची विदेशनीती, पिंपळापुरे अँड कं. पब्लिशर्स, नागपूर, १९९५.
- 20) मेहत्रे डी.एच., भारताचे परराष्ट्रीय धोरण, क्रिएटिव्ह पब्लिकेशन, नांदेड, ऑगस्ट, २०१२.
- 21) आवारी विलास, भारताचे परराष्ट्रीय धोरण, सक्सेस पब्लिकेशन्स, पुणे, २०१५

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
POLITICAL SCIENCE
Effective from June 2018
Class: B.A. THIRD YEAR
(CBCS Pattern)
Semester -V
Paper Title: WESTERN POLITICAL THINKER
Paper-I
(Generic Elective Course)
GE - POL. SCI.

Credit: 03

Periods: 55

Marks: 75

Course Rationale

This paper focus on the Classical ideas generated in the western world representation the ancient to the modern. The four thinkers have been selected who represent ideal, realistic and liberal tradition. The text are interpreted both in the historical and Philosophical perspective.

Utility of Course

The course will narrate students the legacy of the thinkers and orient them about continuity and change within the western political tradition. It helps them to study historical aspects western state and society.

Learning objective

The main purpose of this paper is to acknowledge students with how the great masters explained and analyzed political events and problems of their time and prescribed solutions.

Course Content

		Periods	Marks
1)	Plato	-15-	-20-
	1.1 Ideal State		
	1.2 Philosopher King		
	1.3 Views on Education		
	1.4 Concept of Justice		
	1.5 Theory of Communism		
	1.6 Second Ideal State		

2)	Aristotle	-15-	-20-
	2.1	Concept of Ideal State	
	2.2	Views on Family and Property	
	2.3	Thoughts on Slavery	
	2.4	Views on Civilization	
	2.5	Thoughts on Revolution	
3)	Machiavelli	-15-	-20-
	3.1	Thoughts on Human Nature	
	3.2	Views on Religion and Morality	
	3.3	State-Craft	
4)	J.S. Mill	-10-	-15-
	4.1	His contribution to utilitarianism	
	4.2	Views on liberty	
	4.3	Thoughts on Representative Government	

Readings (English, Hindi & Marathi):

1. J. W. Allen, A History of Political Thought in the Sixteenth Century, London, Methuen.
2. A. Avineri, The Social & Political Thought of K. Marx, New Delhi, S. Chand and Co. 1979.
3. Sir. E. Barker, The Political Thought of Plato and Aristotle, New York, Dover Publications, 1969.
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6. F. Chabod, Machiavelli and the Renaissance, translated by D. Moore, New York, Harper and Row, 1958.
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12. S. Mukherjee & S. Ramaswamy, A History of Political Thought: Plato to Marx, New Delhi, Prentice Hall, 1999.

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21. पाटील बी.बी., पाश्चिमात्य राजकीय विचारवंत, फडके प्रकाशन, कोल्हापूर, १९९७
22. भोगले शांताराम, पाश्चिमात्य राजकीय विचारवंत, विद्या प्रकाशन, नागपूर, १९९१
23. बोराळकर कृ.दि., पाश्चिमात्य राजकीय विचारवंत, पिंपळापुरे अॅण्ड कं. पब्लिशर्स, नागपूर, १९९२
24. शिंदे ज.रा., पाश्चिमात्य राजकीय विचारवंत, कैलाश पब्लिकेशन्स, औरंगाबाद, १९९८
25. कुलकर्णी सुधाकर, पाश्चिमात्य राजकीय विचारवंत, अरुणा प्रकाशन, लातूर, १९९८
26. गव्हाणे महादेव, पाश्चिमात्य राजकीय विचारवंत, निकीता प्रकाशन, लातूर, २०१३
27. अमृतकर प्रशांत, पाश्चिमात्य राजकीय विचारवंत, चिन्मय प्रकाशन, औरंगाबाद, २००५
28. जोरगुलवार भूषण, राजकीय विचारवंत, डॉ. अर्चना शहापूरकर प्रकाशन, अहमदपूर, १९९९
29. शृंगारपुरे अरविंद, पाश्चिमात्य राजकीय विचारक, श्री. मंगेश प्रकाशन, नागपूर, २०००
30. डोळे ना.य., प्रमुख पाश्चिमात्य राजकीय विचारवंत, विद्या बुक्स पब्लिशर्स, औरंगाबाद, १९९९
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32. साबळे आर.डी., पाश्चिमात्य राजकीय विचारवंत, अभय प्रकाशन, नांदेड, १९९९
33. जोशी सु.ग., पाश्चिमात्य राजकीय विचारवंत, गोमटेश प्रकाशन, परभणी, १९९५

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
POLITICAL SCIENCE
Effective from June 2018
B. A. THIRD YEAR
(CBCS Pattern)
Semester - V
SEC – III - INDIAN PARLIAMENTARY PROCEDURE

Credit: 02

Periods: 45

Marks: 50

Course Rationale

This Skill Enhancement oriented course attempts to fill the void and presents some basic facts, and authentic information about our parliament. It seeks to briefly narrate the structure and functioning of the Indian Parliament while it exists in the session.

Utility of the Course

This paper will helpful and encourage students to know the actual working of the houses the sittings, the role of the presiding officers, the Question Hour.

Learning Objective

The main purpose of this course is to encourage learner for absorbing the skill to solve issues, problems in their day to day life as parliament do for the sake of save and strength then democracy.

Course Content

	Periods	Marks
1. Structure of Indian Parliament-	10	10
1.1 The President		
1.2 Rajya Sabha		
1.3 Lok Sabha		
2. Functions of Parliament-	15	20
2.1 Political and Financial Control		
2.2 Surveillance of Administration		
2.3 Informational (Right to Information)		
2.4 Representational, Grievance Ventilation, Educational and Advisory		
2.5 Conflict – Resolution and National International		
2.6 Law Making, Developmental, Social Engineering and Legitimatisational		
2.7 Constituent (Amending the Constitution)		
2.8 Leadership (Recruitment and Training)		

3. Parliament in Session -	10	10
3.1 Summoning of the Houses		
3.2 President's Address		
3.3 Election of Speaker / Deputy Speaker		
3.4 Conduct of Business and Procedure		
4. The Question Hour-	10	10
4.1 Categories of Questions		
4.2 How Questions are admitted, asked		
4.3 Short Notice Questions, Questions to Private Members		
4.4 Half –an- Hour Discussions, Zero Hour		

Readings (English, Hindi & Marathi):

- 1) Austin, Granville, The Indian Constitution, Corner Stone of a Nation Oxford Clarendon, 1996.
- 2) Basu, D.D., Introduction to the Constitution of India, 2002.
- 3) Johari, J.C., Indian Political System, Anmol Publication Pvt. Ltd., Delhi, 1996.
- 4) Pylee M. V., Constitutional Government in India, S. Chand and Co. Ltd., 1984.
- 5) Yerande V. L., Indian Government & Politics, Chandralok Prakashan, Kanpur, 2012.
- 6) कश्यप सुभाष, हमारा संविधान, नॅशनल बुक ट्रस्ट, इंडिया, नई दिल्ली, २००५
- 7) महिला अशोक और पिकाॅक, भारतीय राज्यव्यवस्था, अरिहंत पब्लिकेशन हाऊस, जयपुर, १९८८
- 8) सईद एस.एम., भारतीय राजनीतिक व्यवस्था, सुलभ प्रकाशन, जयपुर, २००३
- 9) जैन पुखराज और फडिया बी.एल., भारतीय शासन एवं राजनीति, साहित्य भवन पब्लिकेशन्स, आगरा, १५ वा संस्करण, २००८
- 10) भोळे भा.ल., भारतीय गणराज्याचे शासन आणि राजकारण, पिंपळापुरे अॅन्ड कं. पब्लिशर्स, नागपूर. २००३
- 11) येरणकर श्रीराम, भारतीय संविधान आणि स्थानिक स्वराज्य शासन, श्री. साईनाथ प्रकाशन, नागपूर, २०१७
- 12) पाटील बी.बी. व उर्मिला चव्हाण, भारतीय शासन आणि राजकारण, फडके प्रकाशन, कोल्हापूर, २००२
- 13) शिंदे सुनिल व ढवळे जयराम, भारताचे शासन आणि राजकारण, एज्युकेशनल पब्लिकेशन्स अॅन्ड डिस्ट्रीब्यूटर्स, औरंगाबाद, २०१४
- 14) भोळे भा.ल., भारतीय राज्यव्यवस्था, पिंपळापुरे अॅन्ड कं. पब्लिशर्स, नागपूर, १९९०

- 15) जोशी सुधाकर, भारतीय शासन आणि राजकारण, विद्या बुक पब्लिशर्स, औरंगाबाद, २०१२
- 16) गव्हाणे अजय, संसदीय लोकशाहीची आयुधे, क्रिएटिव्ह पब्लिकेशन्स, नांदेड, २०१४
- 17) मेहेत्रे डी.एच. व सोलापुरे राजशेखर, भारतीय शासन आणि राजकारण, अरुणा प्रकाशन, लातूर, २००८
- 18) घांग्रेकर चिं.ग., भारतीय राज्यघटना : स्वरूप आणि राजकारण, श्रीमंगेश प्रकाशन, नागपूर, १९९७
- 19) जाधव तुकाराम व महेश शिरपूरकर, भारतीय राज्यघटना व घटनात्मक प्रक्रिया, युनिक अकॅडमी, पुणे, २०११
- 20) लोटे रा.ज., भारतीय राज्य व शासन व्यवस्था, पिंपळापुरे अॅण्ड कं. पब्लिशर्स, नागपूर, २००३
- 21) कुलकर्णी सुधाकर, भारतीय संविधान शासन आणि राजकारण, अभिजीत पब्लिकेशन, लातूर, २००३
- 22) चव्हाण शांताराम, गवई सुभाष, भारतीय राज्यव्यवस्था, वेदमुद्रा प्रकाशन, अमरावती, २०१०
- 23) इंगोले व्ही.एन., एरंडे व्ही.एल., भारतीय शासन आणि राजकारण, कल्पना प्रकाशन, नांदेड, १९९८
- 24) कुलकर्णी बी.वाय., नाईकवाडे अशोक, भारताचे शासन आणि राजकारण, श्री. विद्या प्रकाशन, पुणे, २००३
- 25) कुलकर्णी विजय, भारतीय शासन व राजकारण, कैलाश पब्लिकेशन्स, औरंगाबाद, २०१०

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

POLITICAL SCIENCE

Effective from June 2018

Class: B.A. THIRD YEAR

(CBCS Pattern)

Semester -VI

Paper Title: POLITICAL IDEOLOGY

Paper-II

(Discipline Specific Elective Course)

DSE - POL. SCI.

Credit: 03

Periods: 55

Marks: 75

Course Rationale

This course attempts to explain the concepts, nature and types of various ideologies. It seeks to clarify the key differences between ideological and other modes of thoughts.

Utility of Course

This paper will acknowledge students with various classical political ideologies and its contemporary relevance.

Learning Objective

The main concern of this paper is to introduce variant stands elaborates in various political ideologies about individual, state and society and its dialectics.

Course Content

	Periods	Marks
1) Political Ideology	-15-	-20-
1.1 Meaning, Nature		
1.2 Silent Features		
1.3 Functions		
1.4 Significance		
2) Liberalism	-15-	-20-
2.1 Meaning, definition and nature		
2.2 Origin and Development		
2.3 Kinds – Classical and Modern Liberalism		
2.4 Critique of Liberalism		

3)	Marxism	-15-	-20-
	3.1	Meaning	
	3.2	Features	
	3.3	Theories of Marx's	
	3.4	Indian Marxist Movement	
4)	Nationalism	-10-	-15-
	4.1	Meaning, Definition	
	4.2	Origin and Development	
	4.3	Elements and Types	
	4.4	Significance and Limitations	

Readings (English, Hindi & Marathi):

- 1) B. Anderson, imagined communities, London, Verso, 1991.
- 2) S. Avineri and A. de Shalit (eds), Communication and Individualism, oxford University, Press, 1992
- 3) L.P. Baradat, Political Ideologies: Their Origins and Impact, Englewood Cliffs NJ, Prentice Hall, 1989.
- 4) W.T. de Bary Confucianism in action, Stanford CA. Stanford University Press, 1959.
- 5) D. Bell, The End of Ideology, New York, The free Press, 1960
- 6) R.M. Christenson, et al., Ideology and modern Politics, London, Thomas Nelson and sons, 1971.
- 7) R.H. Daniels, A Documentary History of communism and the West: From Revaluation to collapse, New York Holt, 1993.
- 8) C. Funderbunk and R.G. Thobaben, Political Ideologies: Let, Center and Right, New York, Harper Collins ColleGEN Publishers, 1904.
- 9) दात्ते, ढोबळे, प्रमुख राजकीय विचारप्रणाली, विद्या बुक्स पब्लिशर्स, औरंगाबाद, २००९
- 10) राठी शुभांगी, राजकीय विचारप्रणाली, कैलास पब्लिकेशन्स, औरंगाबाद, २०१३
- 11) पाटील संतोष, राजकीय विचारप्रणाली, शुभम प्रकाशन, लातूर, २००५
- 12) देवरे पी.डी., विसपुते एस.एम., निकुंभ डी.एस., राजकीय विचारप्रणाली, प्रशांत पब्लिकेशन्स, जळगांव, २००३
- 13) सावंत यु.डी., सूर्यवंशी पी.डी., राजकीय विचारप्रणाली, क्रिप्टीव्ह पब्लिकेशन, नांदेड, २०१०
- 14) कुलकर्णी अ.ना., आधुनिक राजकीय विचारप्रणाली, विद्या प्रकाशन, नागपूर, १९९७
- 15) जाधव प्रभाकर, पाटील शाम, राजकीय विचारप्रणाली, राऊत पब्लिकेशनस, नांदेड, २००८

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

POLITICAL SCIENCE
Effective from June - 2018
Class: B.A. THIRD YEAR
(CBCS Pattern)
Semester –VI

OR
Paper Title: POLITICAL SOCIOLOGY
Paper II
(Discipline Specific Elective Course)
DSE - POL. SCI.

Credit: 03

Periods: 55

Marks: 75

Course Rationale

This paper deals with concepts and dimensions in political sociology. It highlights various aspects of political culture, process of political socialization and political modernization, comparatively.

Utility of the Course

This course will help learners to understand dynamics within political action, power and process in India and across the country.

Learning Objective

The main purpose of this course is to acquaint the students with interdisciplinary approach by connecting two separate disciplines.

Course Content

	Periods	Marks
1) Political Sociology	15	20
1.1 Meaning and Definition		
1.2 Nature		
1.3 Scope		
1.4 Significance		
2) Political Culture	15	20
2.1 Meaning and Definition		
2.2 Nature		
2.3 Determinants		
2.4 Classification		
2.5 Significance		

3)	Political Socialization	15	20
	3.1	Meaning and Definition	
	3.2	Agencies	
	3.3	Features	
	3.4	Significance	
4)	Political Modernization	10	15
	4.1	Meaning and Definition, Nature	
	4.2	Features of the Political Modernization	
	4.3	Obstacles in Political Modernization	
	4.4	Political Modernization in India	

Readings (English, Hindi & Marathi):

1. Cantril, H., Human Nature and Political Systems, (Ind.Ed.) Popular Prakashan, Bombay, 1966.
2. Cawangh, D., Political Culture, Macmillan Press Ltd., London, 1972.
3. Coser, L.A. (Ed.), Political Sociology, Harper & Row Publishers, New York, 1967.
4. Dahl R.A. Modern Political Analysis, Prentice Hall of India, New Delhi, 1965.
5. Desai, A.R., Social Background of Indian Nationalism, Popular Prakashan, Bombay, (4th Ed.) 1966.
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7. Dowse, S.E. & Hughes, J.A., Political Sociology, John Wiley & Sons, London, 1972.
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10. Hyman, H.H., Political Socialization, (Ind.Ed.), Amerind Publishing Co. Pvt. Ltd., New Delhi, 1972.
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13. Lipset S.M. (Ed.), Politics and the Social Sciences (Reprint), Wiley Eastern Pvt. Ltd., New Delhi, 1972.
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15. राजेंद्रकुमार शर्मा, राजनैतिक समाजशास्त्र एटलांटिक पब्लिशर्स एन्ड डिस्ट्रीब्यूटर्स, १९८९
16. शशिभूषण सिंह, राजनैतिक समाजशास्त्र के विविध आयाम, अर्जुन पब्लिशिंग हाऊस, नई दिल्ली, २०१२.
17. फाडिया बी.एल., राजनैतिक समाजशास्त्र, साहित्य भवन पब्लिकेशन, दिल्ली, २००८
18. जौहरी जे.सी., समकालीन राजनीतिक सिद्धांत, स्टर्लिंग पब्लिकेशन, प्रा.लि., १९९०.
19. परुथी आर.के. तुलणात्मक राजनीति, अर्जुन पब्लिशिंग हाऊस, दिल्ली २००९
20. इनामदार पुराणिक, राजकीय समाजशास्त्र, कॉन्टिनेंटल प्रकाशन, पुणे, १९८४
21. भोळे भास्कर लक्ष्मण, राजकीय विश्लेषण, पिंपळापुरे बुक डिस्ट्रीब्यूटर्स, नागपूर, २००८
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24. देवगांवकर श.गो., राजकीय समाजशास्त्र, श्री मंगेश प्रकाशन, नागपूर, २००१
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26. बोरालकर कृ.दि., आधुनिक राजकीय विश्लेषण, पिंपळापुरे अॅण्ड क. पब्लिशर्स, औरंगाबाद, १९९२
27. काचोळे दा.धो., राजकारणाचे समाजशास्त्र, कैलास पब्लिकेशन, औरंगाबाद, १९९८
28. कुलकर्णी बी.वाय., राजकीय समाजशास्त्र, कैलास पब्लिकेशन, औरंगाबाद, २००७.
29. तिजारे रा.अ., घांग्रेकर चिं.ग., राज्यशास्त्राचे सिद्धांत आणि राजकीय विश्लेषण, श्री. मंगेश प्रकाशन, नागपूर, १९९७
30. राठी शुभांगी, आधुनिक राजकीय विश्लेषण, अथर्व पब्लिकेशन, जळगांव, २०१८
31. पाटील महेंद्र, राजकीय समाजशास्त्र, प्रशांत पब्लिकेशन, जळगांव, २०१७
32. पवार प्रमोद, पाटील महेंद्र, आधुनिक राजकीय विश्लेषण, प्रशांत पब्लिकेशन, जळगांव, २०१५

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
POLITICAL SCIENCE
Effective from June 2018
Class: B.A. THIRD YEAR
(CBCS Pattern)
Semester -VI
Paper Title: MODERN POLITICAL ANALYSIS
Paper-II
(Generic Elective Course)
GE -POL. SCI.

Credit: 03

Periods: 55

Marks: 75

Course Rationale

This course acquaints students with the aspect of modern political analysis. Modern political analysis is very important in the view of political science study. In this course, student has to study about practical concept of political science like political Leadership, political parties and various behaviour approaches. This modern approach helps to study of politics and its various aspects. This course encourage to student in the field of political science.

Utility of Course

This paper content will helpful for student to draw new meaning as per recent time they can understand new concept of political science in the reference of modern age.

Learning Objective

This course main aim to acquaint to student about new concept in political science as like political Leadership, study of various approaches of human behavior in politics.

Course Content

	Periods	Marks
1) Emergence of Modern Political Analysis	-15-	-20-
1.1 Meaning, Definitions		
1.2 Origin, Nature and Scope		
1.3 Characteristics		
1.4 Significance		

2)	Approaches to the Study of Modern Political Analysis	-15-	-20-
	2.1 Behavioural Approach		
	2.2 System approach		
	2.3 Structural Functional Approach		
3)	Political Leadership	-15-	-20-
	3.1 Meaning and Definition		
	3.2 Elements of Leadership		
	3.3 Qualities of Ideal Leadership		
	3.4 Types of Leadership		
4)	Political Parties	-10-	-15-
	4.1 Meaning and definition		
	4.2 Characteristics of Political Parties		
	4.3 Functions of Political Parties		
	4.4 Party Structure and Classification		

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SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

**POLITICAL SCIENCE
Effective from June 2018**

**B. A. THIRD YEAR
(CBCS Pattern)**

Semester - VI

SEC – IV - INDIAN DEMOCRACY & GOOD GOVERNANCE

Credit: 02

Periods: 45

Marks: 50

Course Rationale:

This Paper Provide the Conceptual Framework of the Democracy and Good Governance. It delves deep into meaning, origin, forms of Democracy and Good Governance in General.

Utility of the Course:

This Course will helpful and encourage students to Acknowledge Democratic Process in India.

Learning Objectives:

An intention of this paper is to understand origin, development and challenges before Good Governance in India.

Course Content	Periods	Marks
1. Democracy	10	10
1.1 Meaning & Definition		
1.2 Characteristics of Democracy		
1.3 Types of Democracy		
1.4 Merits and Demerits		
1.5 Obstacles in the way of Democracy		
2. Good Governance	15	15
2.1 Meaning and Definitions		
2.2 Silent Features of Good Governance		
2.3 Elements of Good Governance		
2.4 Obstacles in the way of Good Governance		

3. Development of Good Governance in India	10	10
3.1 Ancient Period (Kautilya)		
3.2 Medieval Period (Mughal Period)		
3.3 Modern Period – Pre-Independence and Post-Independence Period		
4. Democracy and Good Governance	10	15
4.1 The Needs of Good Governance in Democracy		
4.2 The Role of Political Parties and Free Press and Citizens		
4.3 Challenges before Democracy and Good Governance		

Readings (English, Hindi & Marathi):

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3. Candra Bhan Singh, Democracy, Good Governance and Human Rights, Neha Publishers and Distributors.
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36. दिवाण चंद्रशेखर, राजकीय सिद्धांत आणि राजकीय विश्लेषण, विद्या प्रकाशन, नागपूर, १९९८



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड- ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

Established on 17th September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



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मानवविज्ञान विद्याशाखेतील पदवी
स्तरावरील तृतीय वर्षाचे CBCS Pattern
नुसारचे अभ्यासक्रम शैक्षणिक वर्ष
२०१८-१९ पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक १४ जून २०१८ रोजी संपन्न झालेल्या ४१व्या मा. विद्या परिषद बैठकीतील विषय क्र.११/४१-२०१८ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील तृतीय वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१८-१९ पासून लागू करण्यात येत आहेत.

- १) इंग्रजी
- २) हिंदी
- ३) कन्नड
- ४) मराठी
- ५) पाली
- ६) संस्कृत
- ७) उर्दू
- ८) अर्थशास्त्र
- ९) भूगोल
- १०) इतिहास
- ११) सैनिकशास्त्र
- १२) तत्त्वज्ञान
- १३) राज्यशास्त्र
- १४) लोकप्रशासन
- १५) समाजशास्त्र

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड - ४३१ ६०६.

जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदवी-सीबीसीएस अभ्यासक्रम/
२०१८-१९/२५२

दिनांक : २५.०६.२०१८.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, यू.जी.सी. कक्ष, प्रस्तुत विद्यापीठ.

स्वाक्षरित / -

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग



**SWAMI RAMANAND TEERTH
MARATHWADA UNIVERSITY NANDED**

**SYLLABUS
PUBLIC ADMINISTRATION**

**Semester Pattern
(Choice Base Credit System)**

**B. A. THIRD YEAR
Semester V and VI**

(With Effective from 2018-19)

Swami Ramanand Teerth Marathwada University Nanded

CHOICE BASED CREDIT SYSTEM (CBCS)

SEMESTER PATTERN

**B.A. Third Year (Semester :-V)
Subject :- Public Administration
Under Faculty of Humanities
(For Affiliated Colleges)
(With Effective from 2018-19)**

Name of the Faculty :Humanities

Total Credit :16

Note :

C.A: - Continuous Assessment

ESE :- End of Semester Examination (E.S.E.)

DSE :- Discipline Specific Elective

DGE :- Discipline Generic Elective

Weightage : 53 % for E.S.E.& 47 % for C.A .

Swami Ramanand Teerth Marathwada University, Nanded
Choice Based Credit System (CBCS) Course Structure
Faculty Of Humanities
B.A. Third Year (Semester V & VI) Syllabus
 Effective from 2018-19
Subject :Public Administration

Semester	Course Name	Paper No.	Name of Paper	Lectures/ Week	Total No. Of Lectures	C.A.	E.S.E.	Total Marks	Credits
Semester V	DSEPA-I	I	Administrative Thinkers OR Financial Administration	04	55	35	40	75	03
	DGEPA-I	I	Rural Local Government in Maharashtra	04	55	35	40	75	03
	SECPA-III	III	Disaster Management	03	45	25	25	50	02
				Total Sem. V	11	155	95	105	200
Semester VI	DSEPA-II	II	Recent Trends in Public Administration OR Administrative Thoughts	04	55	35	40	75	03
	DGEPA-II	II	Urban Local Government in Maharashtra	04	55	35	40	75	03
	SECPA-IV	IV	Administration of N.G.O.	03	45	25	25	50	02
				Total Sem.VI	11	155	95	105	200
			TOTAL SEM.V & VI	22	310	190	210	400	16

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

CBCS – Paper Pattern in the Subject of Public Administration

B.A. Third Year Semester – V & VI*(Effective from 2018-19)***B.A. Third Year Semester – V**

Paper No.	Title of the Paper	Internal Mark (CA)	End Semester Exam (ESE)	Total (CA+ESE)
DSEPA-I	Administrative Thinkers OR Financial Administration	35	40	75
DGEPA-I	Rural Local Government in Maharashtra	35	40	75
SECPA-III	Disaster Management	25	25	50

B.A. Third Year Semester – VI

Paper No.	Title of the Paper	Internal Mark (CA)	End Semester Exam (ESE)	Total (CA+ESE)
DSEPA-II	Recent Trends in Public Administration OR Administrative Thoughts	35	40	75
DGEPA-II	Urban Local Government in Maharashtra	35	40	75
SECPA-IV	Administration of N.G.O.	25	25	50

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Public Administration

B.A. Third Year

Semester – V and VI

End Semester Examination

Question Paper Pattern

Time: Two Hours

Total Marks :40

Q.No.1	Descriptive Questions OR Descriptive Questions	10 marks
Q.No.2	Descriptive Questions OR Descriptive Questions	10 marks
Q.No.3	Descriptive Questions OR Descriptive Questions	10 marks
Q.No.4	Write short notes on any two. A) B) C) D)	10 marks

Public Administration

B.A. Third Year

Semester - V

Discipline Specific Elective Paper No:- DSEPA-I

Administrative Thinkers

(Effective From June 2018)

Course Rational

Public Administration is one of the youngest branches of Faculty of Humanities. With the expansion of the activities of modern state, public administration has assumed great significance in modern society. Administrative Thinkers and their contribution is an important part of public administration. The main thing is to impart knowledge of Indian and western administrative theories .

Learning Objectives:

After studying the course students will have a capacity to understand :

- 1) Basic Knowledge of various administrative Theories.
- 2) The approaches of study of public administration.
- 3) The relevance of thoughts in organizations.

Utility of the course

The students will be channelized to learn and understand various theories put forth by administrative thinkers regarding public administration and management. Through the narratives described in the course students will be made acquainted with ancient theories advocated by administrative thinkers like Kautilya about good governance and his views about eradication of corruption.

Course Content

	Periods	Marks
1) Kautilya		
Views on Good Governance	(10 Periods)	15
Views on Corruption		
2) Fredrick W. Taylor	(10 Periods)	15
Principles of Scientific Management		
Mental Revolution		
3) Henri Fayol	(15 Periods)	15
Principles of Management		
Elements of Management		
Qualities of Manager		

4) Mery Parker Follet

Views on Leadership (10Periods) 15
Constructive Conflict & Integration

5) Herbert Simon

Decision Making Theory (10Periods) 15
Communication Theory

Reference Books

1. Sum Sun Nisa Ali, Eminent Administrative Thinkers, Associated Publishing House, New Delhi
2. S.R. Maheshwari, Administrative Thinkers, - Macmillan Indian Ltd., Mumbai
3. R.K. Sapru, Administrative Theory and Management thought, Prentic Hall of India, New Delhi
4. जी.एस. सुधा., प्रबंध चिंतन का इतिहास, आर.बी.एस.ए. पब्लिशर्स जयपूर
5. अशोक कुमार दुबे, प्रशासकीय विचारक, टी.एम.एच. पब्लिशर्स, नई दिल्ली
6. डॉ. सुरेंद्र कटारिया, प्रशासनिक चिंतक, नॅशनल पब्लिकेशन हाऊस, नई दिल्ली
7. डॉ. नरेंद्र थोरी, प्रशासनिक विचारक, आर.बी.एस.ए. पब्लिशर्स जयपूर
8. प्रा.के.आर.बंग, प्रशासकीय विचारवंत, विद्या प्रकाशन, औरंगाबाद
9. प्रा.लक्ष्मण कोत्तापल्ले, पाश्चिमात्य व भारतीय प्रशासकीय विचारवंत, निर्मल प्रकाशन नांदेड
10. डॉ.श्याम शिरसाट, डॉ.भगवान बैनाडे व डॉ.जितेंद्र वासनिक, प्रशासकीय विचारवंत, ज्ञानसमिधा पब्लिकेशन, औरंगाबाद
11. डॉ.राम जाधव व डॉ.गोविंद येडले, प्रशासकीय विचारसरणी, सिरीयल पब्लिकेशन नवी दिल्ली
12. डॉ.अर्जुनराव दर्शनकार, प्रशासकीय विचारवंत, कैलास पब्लिकेशन, औरंगाबाद
13. प्रा.जी. एच. बिरादार, प्रशासकीय विचारवंत, कैलास पब्लिकेशन, औरंगाबाद
14. डॉ.श्याम वाघमारे व डॉ.सुरेश गजभारे, प्रशासकीय विचारवंत, अरुणा प्रकाशन लातूर
15. डॉ.स्मिता मारवाळीकर, प्रशासकीय विचारवंत, संकल्प प्रकाशन लातूर

Public Administration

B.A. Third Year

(Semester – V)

Discipline Specific Elective Paper No:- DSEPA- I (OR)

Financial Administration

(Effective From Jun. 2018)

Course Rational

Financial administration thus forms a crucial aspect of public administration. Financial machineries may be designed to promote and develop particular public policies. Government raises fund from the public to meet maintenance expenditure or the running expenses of public administration. The course focuses on the important branch of public administration.

Utility of the Course :-

The present syllabus will help the students to study various phases of Indian budget . The students will be channelized to understand various steps of budget such as preparation, Legislation and Execution. The students will be able to demonstrate the implementation of budget and various financial machineries.

Learning Objectives:

- 1) To provide basic Knowledge of financial administration.
- 2) To Understand the Indian Budgetary process.
- 3) To Familiarize the students with basic Knowledge of Budget and financial administration .

Course Content	Periods	Marks
1. Financial Administration : Meaning ,scope and Importance	(10 Periods)	15
2. Budget a. Meaning, Importance b. Principles of Budget	(10 Periods)	15
3. Budgetary Process a. Preparation b. Legislation c. Execution	(15 Periods)	15

4. Financial Machineries :

- a. Central Finance Ministry :-
- b. Organization & Functions (08 Periods) 15

5. Financial Committees:

(12 Periods) 15

- a. Estimate Committee
- b. Public Accounts Committee
- c. Public Undertakings Committee

Reference Books:-

1. M.J.Thavaraj, Financial Administration of India, Sultan Chand & Sons, New Delhi
2. B.N. Gadhak, Financial Management of Government
3. A.G. Ghosh, Indian Financial System,
4. डॉ.सुरेश मामीडवार व प्रा.चव्हाण, कर्मचारी व वित्तीय प्रशासन कल्पना प्रकाशन नांदेड
5. प्रा. के.आर.बंग, कर्मचारी व वित्तीय प्रशासन, विद्या प्रकाशन औरंगाबाद
6. डॉ.बी.एस. पिंपळे, डॉ.पी.व्ही.भूताळे व डॉ.बाजीराव वडवळे, कर्मचारी व वित्तीय प्रशासन संह्याद्री प्रकाशन नांदेड
- 7 डॉ.पंचशील एकम्बेकर, डॉ.अशोक सोनकांबळे डॉ.कहाळेकर, वित्तीय प्रशासन व सार्वजनिक धोरण अरुणा प्रकाशन लातूर
- 8 डॉ.राऊतराये एम.एफ., वित्तीय प्रशासन , साधना प्रकाशन, परभणी

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED
Public Administration
B.A. Third Year
Semester - V
Discipline Generic Elective Paper No:- DGEPA-I
Rural Local Government In Maharashtra
(Effective From June 2018)

Course Rational

One of the most significant development in India since independence in the field of local government has been the establishment of a net-work of Panchayati Raj Institutions. It is a Three tire system of governance at village ,tahsil and district level. Panchayati Raj Institutions playing impartment role in social and economic development of Maharashtra state .The course will throw light on details of the formation and working of Panchayati Raj institutions and powers and responsibilities. The course covers the part which is commonly added in U.P.S.C.,M.P.S.C. and other competitive exams. This course would focus on the panchayati Raj institutions and their administration.

Utility of the course

The Content of the course will enable the students to prepare themselves for various competitive examinations such as U.P.S.C.,M.P.S.C. and other competitive examinations. The students will learn and try to understand the functioning of several democratic institutions such as Zilla Parishad, Panchayat Samiti and Gram Panchayat. Due to the course the students will be motivated to develop interest towards rural development.

Learning Objectives

After studying the course students will have a capacity to understand :

- 1) To Understand the Three tire system of panchayati Raj in Maharashtra state.
- 2) Understand to how to help to Zilla parishad, panchayat samiti and Gram Panchayat improve their overall well being .
- 3) To develop awareness of the basic Governing system to students.

Course Content	Periods	Marks
1. Local Government: Meaning, Nature & Importance	(8 Periods)	15
2. Evolution of Panchayat Raj Institutions a. Community Development Programme b. Balwant Rai Mehta Committee c. Vasantrao Naik Committee	(12 Periods)	15
3. Seventy Third Constitutional Amendment Act Provisions of 73rd Constitutional Amendment	(10 Periods)	15
4. Three Tire System –Composition & Functions a. Zila Parishad b. Panchayat Samiti c. Gram Panchayat	(15 Periods)	15
5. Problems of Rural Local Government a. Official - Non Official Relations b. Local Politics c. Corruption	(10 Periods)	15

Reference Books

1. G.Palanithurai, Dynamics of New panchyaati Raj system in India , Concept Publishing Company New Delhi
2. B.S. Bhargava, Panchayatraj system & Political Parties, Ashish Publishing House New Delhi
3. D.Y.Raghava Rao :Panchyayat and Rural Development, Ashish Publishing House New Delhi
4. Ikbal Narayan, Panchayatraj Administration in Maharashtra
5. Amal Mandal, Women in Panchayatiraj Institutions Kanishka Publishers, New Delhi
6. M. Aslam, Panchayati Raj in India, National Book Trust India, New Delhi
7. S. Dharmaraj, Panchayati Raj System in India, Abhijeet Publications, Delhi
8. M. Mary, Women Leadership in Panchayatraj Administration, The Associated Publishers, Ambala Cant.
9. डॉ.अशोक शर्मा, भारत मे स्थानीय प्रशासन, आर.बी.एस.ए. पब्लिशर्स, जयपूर
10. डॉ.बी.सी.नरूला, पंचायती राज व्यवस्था, अर्जुन पब्लिशिंग हाउस, नवी दिल्ली
11. डॉ.आर.पी.जोशी & डॉ.रूपा मंगलानी, भारत मे पंचायती राज, आर.एच.जी.ए. जयपूर
12. डॉ.रवींद्र शर्मा, ग्रामीण स्थानीय प्रशासन, प्रिंटवेल पब्लिशर्स जयपूर

13. डॉ. अर्जुनराव दर्शनकार, पंचायतराज व नागरी प्रशासन, कैलास पब्लिकेशन औरंगाबाद
14. प्रा. व्ही.बी.पाटील, महाराष्ट्रातील पंचायती राज व नागरी स्थानिक स्वराज्य संस्था के.सागर प्रकाशन पुणे
15. डॉ. शांताराम भोगले, भारतातील स्थानिक शासन, विद्या प्रकाशन, नागपूर
16. डॉ. गोविंद यमलवाड, स्थानिक स्वराज्य संस्था, कल्पना प्रकाशन, नांदेड
17. डॉ. श्याम शिरसाठ व बैनाडे, भारतातील स्थानिक स्वराज्य संस्था, विद्या प्रकाशन, औरंगाबाद
18. डॉ. श्याम वाघमारे , डॉ. सुरेश गजभारे, महाराष्ट्रातील ग्रामीण व नागरी प्रशासन, अरुणा प्रकाशन, लातूर
19. डॉ. बी.आर. कतुरवार , पंचायतीराज संस्थेतील मागासवर्गीय नेतृत्व, ओमसाई प्रकाशन,
20. मुंबई ग्रामपंचायत अधिनियम-१९५८ , सोनादिपा पब्लिशर्स देवपूर , धुळे
21. ग्राम विकास , य.च.म.मू.विद्यापीठ नाशिक.
22. डॉ. अशोक जाधव, संत गाडगे महाराज व ग्राम स्वच्छता, ज्योतीचंद्र प्रकाशन, लातूर
23. डॉ. सोमवंशी मुक्ता, पंचायतीराज संस्थेतील महिला प्रतिनिधी व निर्णय प्रक्रिया, अरुणा प्रकाशन, लातूर

Public Administration

B.A. Third Year

Semester - V

Skill Enhancement Course Paper No:-SECPA - III

Disaster Management

(Effective From June 2018)

Course Rational

Disaster Management is very significant to survive in the case of a natural or a man made disaster. and can be defined as the organization and management of resources and responsibilities for dealing with all humanitarian aspects of emergencies in particular preparedness response and recovery.

Utility of the course

In the recent years the branch of Disaster Management has attained unique importance. The course will teach the students the utility of the disaster management.

Course Objectives:

- 1) The Course Introduce and Provides Knowledge of Disaster Management
- 2) To understand the role of various factors in Disaster Management.

Course Content	Periods	Marks
Unit :- I Disaster Management Meaning and Classification of Disaster Meaning and Importance Of Disaster Management	15	15
Unit :- II Disaster Management Act 2005 Background and Provisions of Disaster Management Act.	10	15
Unit :- III Responsibilities and Role of Various Factors in Disaster Management A) Collector B) Tahasildar C) Citizens D) Media	20	20

Note : It is obligatory to conduct 45 Periods in one semester for Skill Enhancement Course, per week 3 periods.

C.A.: Continuous Assessment : (25 marks)

- Concern teacher should take two test of 05 marks 05+05= 10 and seminar for 15 marks.

E.S.E. :-End Semester Exam : (25 marks)

End semester exam Should be conducted as per the guidelines laid by the University.

Study Visit the local Administrative offices, media representatives , N.G.O., disaster spot and write a Project Report on Disaster management.

Reference Books

1. डॉ.बी.एल.फाडीया,लोकप्रशासन,सहित्य भवन पब्लिकेशन आग्रा.
2. डॉ.बिरकेश्वर प्रसादसिंग,लोकप्रशासन,ज्ञानदा प्रकाशन नई दिल्ली
3. डॉ.सुरेंद्र कटारिया,लोकप्रशासन,नॅशनल पब्लिकेशन हाऊस, नई दिल्ली
4. श्री रवींद्र कोल्हे, टाईम मॅनेजमेन्ट,साकेत प्रकाशन औरंगाबाद
5. डॉ.पंचशील एकंबेकर,डॉ.तरोडे व डॉ.वाघमारे,लोकप्रशासनातील नवप्रवाह, ओमसाई सेवाभावी संस्था नायगाव
6. डॉ.प्रीती पोहेकर, लोकप्रशासनातील नवप्रवाह,अरुणा प्रकाशन लातूर
7. डॉ.बी.आर. कतुरवार,आपत्ती व्यवस्थापन,ओमसाई प्रकाशन, देगलूर



Swami Ramanand Teerth Marathwada University, Nanded

**CHOICE BASED CREDIT SYSTEM (CBCS)
SEMESTER PATTERN**

**B.A. Third Year (Semester :-VI)
Subject :- Public Administration
Under Faculty of Humanities
(For Affiliated Colleges)
(With Effective from Nov. 2018)**

Note :

C.A: - Continuous Assessment

ESE :- End of Semester Examination (E.S.E.)

DSE :- Discipline Specific Elective

DGE :- Discipline Generic Elective

Weightage : 53 % for E.S.E.& 47 % for C.A .

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

Public Administration

B.A. Third Year

Semester - VI

Discipline Specific Elective Paper No:- DSEPA:-II

Recent Trends in Public Administration

(Effective From NOV. 2018)

Course Rational

Public Administration is one of the youngest branches of Faculty of Humanities. With the expansion of the activities of modern state, public administration has assumed great significance in modern society. The impact of Information Technology has given to many new trends which have all branches in public administration. Recent trends is an important part of public administration. The main thing is to impart knowledge of recent trends in public administration.

Utility of the course

The era of Information Technology has given to many new trends which have all walks of life and administration of several offices is not an exception. The said course will help the students to understand such changes and get to it.

Course Objectives:

- 1) To Understand the emerging and recent trends in public administration.
- 2) To Know the Importance of Information Technology in Public Administration.
- 3) To introduce and provide knowledge of Right to Information Act.

Course Content

	Periods	Marks
1. New Public Administration		
a) Background of New Public Administration	(10 Periods)	15
b) Elements of New Public Administration		
2. Information Technology & Public Administration		
a) E-Administration - meaning & features	(15 Periods)	15
b) Importance of Information Technology in Public Administration		
3. People's participation	(10 Periods)	15
meaning, importance, problems & suggestions		

4. Right to Information Act.

- c) Meaning & Importance of Right to information Act.(10 Periods) 15
- d) Challenges before Right to information in India

5. Issues in Public Administration (10 Periods) 15

- a. Public – Private Partnership (P.P.P.)
- b. Service Guaranty Act.
- c. Ethics in Administration

Reference Books

1. Y. Parthasaradhi & Other, E-Governance and Indian Society, Kanishka Publishers, New Delhi.
2. B.M. Chitlangi, Recent Trends in Public Administration, RBSA Publishers, Jaipur
3. Vivek K. Singh, Significant Issues in Public Administration, New Delhi
4. Mohit Bhattacharya, New Horizon of public Administration, Jawahar Publishers New Delhi.
5. Amit Bhaduri& Deepak Nayyar, The Intelligent Person's Guide to Liberalization
4. Subhash C. Kashyap - Crime, Corruption & Good Governance, New Delhi
5. BhabaniSengupta, India : The problem of Governance, Delhi Konark
6. Mohit Bhattacharya, Development Administration : Search for Alternatives, Jawahar Publishers, New Delhi
7. K. Garg, Electronic Government, Arise Pubshers New Delhi
8. अशोक कुमार दुबे, 21 वी शताब्दी मे लोकप्रशासन, टी.एम.एच.पब्लिशर्स, नई दिल्ली
9. डॉ.बी.एल.फाडीया, लोकप्रशासन, सहित्य भवन पब्लिकेशन आग्रा.
10. डॉ.बिरकेश्वर प्रसादसिंग, लोकप्रशासन, ज्ञानदा प्रकाशन नई दिल्ली
11. डॉ.सुरेंद्र कटारिया, लोकप्रशासन, नॅशनल पब्लिकेशन हाऊस, नई दिल्ली
12. डॉ.पंचशील एकंबेकर, डॉ.तरोडे, डॉ.वाघमारे, लोकप्रशासनातील नवप्रवाह, ओमसाई प्रकाशन नायगाव
13. डॉ.बी.आर.कतुरवार, लोकप्रशासनातील नवीन विचार प्रवाह , ओमसाई प्रकाशन देगलूर
14. डॉ.प्रीती पोहेकर, लोकप्रशासनातील नवप्रवाह, अरुणा प्रकाशन लातूर

Public Administration

B.A. Third Year

(Semester – VI)

Discipline Specific Elective Paper No:- DSEPA:-II (OR)

Administrative Thoughts

(Effective From Nov. 2018)

Course Rational

Public Administration is one of the youngest branches of Faculty of Humanities. With the expansion of the activities of modern state, public administration has assumed great significance in modern society. Western Administrative Thinkers and their contribution is an important part of public administration. The main thing is to impart knowledge of western administrative theories .

Utility of the course

The students will be channelized to learn and understand various theories put forth by Modern administrative thinkers regarding public administration and management. Through the narratives described in the course students will be made acquainted with theories advocated by administrative thinkers like Elton Mayo, Abraham Maslow about Human Relations Theory.

Course Objectives:

- 1) To provide basic Knowledge of various modern administrative theories .
- 2) To Understand the Views of Human Relation theory .
- 3) To Familiarize the students with basic Knowledge of modern administrative thoughts.

Course Content	Periods	Marks
1) Elton Mayo	10	15
A) Hawthorn Experiments		
B) Conclusions Hawthorn Experiments		
2) F.W. Riggs	15	15
A) Comparative Administration		
I. Prismatic Society		
II. SALA Model		
B) Ecological Approach		

3) Abraham Maslow	10	15
A) Motivation Theory		
B) Theory of Need Hierarchy		
4) Fredrick Herzberg	10	15
A) Two Factors Theory (Hygiene Theory)		
B) Job Enrichment		
5) Paul H. Appleby	10	15
A) Views On Public Administration		
B) Views on Indian Administration		

Reference Books

14. Sum Sun Nisa Ali, Eminent Administrative Thinkers, Associated Publishing House, New Delhi
15. S.R. Maheshwari, Administrative Thinkers, - Mac millan Indian Ltd., Mumbai
16. R.K. Sapru, Administrative theory and Management thought, Prentic Hall of India, New Delhi
17. जी.एस. सुधा., प्रबंध चिंतन का इतिहास, आर.बी.एस.ए. पब्लिशर्स जयपूर
18. अशोक कुमार दुबे, प्रशासकीय विचारक, टी.एम.एच.पब्लिशर्स, नई दिल्ली
19. डॉ.सुरेंद्र कटारिया, प्रशासनिक चिंतक, नॅशनल पब्लिकेशन हाऊस, नई दिल्ली
20. डॉ.नरेंद्र थोरी, प्रशासनिक विचारक, आर.बी.एस.ए. पब्लिशर्स जयपूर
21. प्रा.के.आर.बंग, प्रशासकीय विचारवंत, विद्या प्रकाशन, औरंगाबाद
22. प्रा.लक्ष्मण कोत्तापल्ले, पाश्चिमात्य व भारतीय प्रशासकीय विचारवंत, निर्मल प्रकाशन नांदेड
23. डॉ.श्याम शिरसाट, डॉ.भगवान बैनाडे व डॉ.जितेंद्र वासनिक, प्रशासकीय विचारवंत, ज्ञानसमिधा पब्लिकेशन, औरंगाबाद
24. डॉ.राम जाधव, डॉ.गोविंद येडले, प्रशासकीय विचारसरणी, सिरीयल पब्लिकेशन नवी दिल्ली
25. डॉ.अर्जुनराव दर्शनकार, प्रशासकीय विचारवंत, कैलास पब्लिकेशन, औरंगाबाद
26. प्रा.जी. एच. विरादार, प्रशासकीय विचारवंत, कैलास पब्लिकेशन, औरंगाबाद
27. डॉ.श्याम वाघमारे व डॉ.सुरेश गजभारे, प्रशासकीय विचारवंत, अरुणा प्रकाशन लातूर
28. डॉ.स्मिता मारवाळीकर, प्रशासकीय विचारवंत, संकल्प प्रकाशन, लातूर

Public Administration

B.A. Third Year

(Semester – VI)

Discipline Generic Elective Paper No:- DGEPA :- II
Urban Local Government in Maharashtra

(Effective From Nov. 2018)

Course Rational

One of the most significant development in India since independence in the field of local government has been the establishment of a net-work of Urban local Institutions. All round Development of Urban areas is done through the Urban Administration. To make Municipal Councils and Municipal Corporation strong and democratic under the 74 Amendment of Indian Constitution.

The urban local Institutions playing important role in the development of Maharashtra state .The course will throw light on details of the formation and working of urban local institutions and powers and responsibilities. The course covers the part which is commonly added in U.P.S.C.,M.P.S.C. and other competitive exams. This course would focus on the Nagar Panchayat, Municipal Council and Municipal Corporation and their administration.

Utility of the course

The utility of the course is discuss and analyze the problems created due to urbanization and suggest possible solutions about urban management and other related issues. The students will learn and try to understand the functioning of several democratic urban institutions such as Nagar panchayat, Nagar Parishad and Municipal Corporations. .Due to the course the students will be motivated to develop interest towards urban development of Maharashtra state.

Course Objectives:

- 1) To Understand the Role of Urban Local Government in Development of Nation.
- 2) Develop a Local Leadership in urban area.
- 4) To Understand the Role of urban local Institutions in urban development.
- 4) To develop of the basic Governing system to students.

Course Content	Periods	Marks
1. Urban Local Government : Meaning, Nature & Importance	(8 Periods)	15
2. Urbanization : Meaning, Reasons and Effects	(10 Periods)	15

3.74th Constitutional Amendment (10 Periods) **10**
Provisions of 74th Constitutional Amendment act.

4. Urban Local Institutes :
Composition & Functions (15 Periods) **20**

- A. Municipal Corporation
- B. Municipal Council
- C. Nagar Panchayat

5. Problems of Urban Local Governance (12 Periods) **15**
a. Slums
b. Pollution
c. Traffic

Reference Books

1. S.C. Goel, Urban Local Self Govt. Deep & Deep Publications New Delhi
2. Paradeep Sachdeva, Urban Local Govt. and Administration in India
3. U.B. Singh, Urban Local Government, Rawat Publications Jaipur
4. डॉ. अशोक शर्मा, भारत मे स्थानीय प्रशासन, आर.बी.एस.ए. पब्लिशर्स, जयपूर
5. डॉ. अर्जुनराव दर्शनकार, पंचायतराज व नागरी प्रशासन, कैलास पब्लिकेशन औरंगाबाद
6. प्रा. व्ही. बी. पाटील, महाराष्ट्रातील पंचायती राज व नागरी स्थानिक स्वराज्य संस्था,
7. डॉ. शांताराम भोगले, भारतातील स्थानिक शासन, विद्या प्रकाशन, नागपूर
8. डॉ. गोविंद यमलवाड, स्थानिक स्वराज्य संस्था, कल्पना प्रकाशन, नांदेड
9. डॉ. श्याम शिरसाठ व बैनाडे, भारतातील स्थानिक स्वराज्य संस्था, विद्या प्रकाशन, औरंगाबाद
10. डॉ. श्याम वाघमारे व डॉ. सुरेश गजभारे, महाराष्ट्रातील ग्रामीण व नागरी प्रशासन

Public Administration

B.A. Third Year

Semester - VI

Skill Enhancement Course

Paper No:- SECPA :- IV

**Administration of Non Government Organizations
(Effective From Nov. 2018)**

Credits : 02

Periods : 45

Marks : 50

Course Rational

The development process in a democratic form of government can only succeed when the citizens not only associate themselves with planning development programmes but also participate fully in their implementation. Citizens participation through NGOs make the administration responsive to the needs of the peoples. The focus of the course is on the NGOs , their functions and responsibilities.

Utility of the course

In the country like India, the role of NGO is very significant. The purpose of the course is to make the students to analyze the work of NGOs and to inspire them to undertake such project according to his potential and skills.

Course Objectives:

- 1) To Introduce and Provides Knowledge of Non Government Organization and their Administration.
- 2) To understand the work of N.G.Os in Nation building.
- 3) The ability of Students to understand the Non Government organization and its works.

Course Content

	Periods	Marks
Unit:- I Non Government Organization		
Meaning, Importance , Process of Formation of NGO. Government organization and Non Government- Organization : Affinity and Difference	15	20
Unit :- II Administration of N.G.O.		
Meaning ,Definition , Nature and Scope of NGOs administration.	15	15
Unit:- III Principal of management		
Planning , Organization Staffing, Coordination and Control.	15	15

Note : It is obligatory to conduct 45 Periods in one semester for Skill Enhancement Course, per week 3 periods.

Continuous Assessment: (25 marks)

- Concern teacher should take two test of 05 marks(05+05= 10 marks) and seminar for 15 marks.

End Semester Exam : (25 marks)

End semester exam Should be conducted as per the guidelines laid by the University.

Study Visit the office of N.G.O. and write a Project Report.

Reference Books

1. Rajshekhr, D. (Ed),Decentralized Government and NGOs: Issues, strategies and ways forward” Concept Publishing company, New Delhi.
2. Dantwala. M.L. and others,“Social change through Voluntary action” Sage Publications. 1998 New Delhi.
3. Sangetha Natarajan (Ed.),“A reference manual on Management and Accounting systems in the Voluntary Sector” (HIVOS)
4. Alan Fowler (Eds.):2003,Michael Edwards and “NGOs Management”, Earthsean, New Delhi. 5. Lawani, B.T.1999 ,“NGOs in Development” Rawat Publications.Jaipur and New Delhi.
6. Chandra, Snehalatha:2001,“Non-Governmental Organizations: Structure, relevance and function” Kanishka Publications, New Delhi.
7. Shivani Dharmarajan : 2001,“NGOs as prime movers: Sectorial Action for Social Development” Kanishka Publications, New Delhi.
8. Dr.L.M. Prasad, Principles of Management,Himalaya Publication New Delhi
- 9.R.K. Sapru, Administrative theory and Management thought, Prentic Hall of India, New Delhi
- 10 डॉ.बिरकेश्वर प्रसादसिंग,लोकप्रशासन,ज्ञानदा प्रकाशन नई दिल्ली
- 11 डॉ.सुरेंद्र कटारिया,लोकप्रशासन,नॅशनल पब्लिकेशन हाऊस, नई दिल्ली
- 12 प्रा.रूपाली शेठ व प्रा.नेहा पुराणिक व इतर,व्यवस्थापनाची तत्वे व कार्ये,डायमंड प्रकाशन पुणे.
- 13 डॉ.प्रभाकर देशमुख,व्यवसाय व्यवस्थापनाची मुलतत्वे,पिंपळापुरे पब्लिकेशन नागपूर
- 14 डॉ. मुक्ता सोमवंशी- डॉ.गंगणे, कार्यालय प्रशासन,चिन्मय प्रकाशन औरंगाबाद



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड— ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

Established on 17th September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



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मानवविज्ञान विद्याशाखेतील पदवी
स्तरावरील तृतीय वर्षाचे CBCS Pattern
नुसारचे अभ्यासक्रम शैक्षणिक वर्ष
२०१८-१९ पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक १४ जून २०१८ रोजी संपन्न झालेल्या ४१व्या मा. विद्या परिषद बैठकीतील विषय क्र.११/४१-२०१८ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील तृतीय वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१८-१९ पासून लागू करण्यात येत आहेत.

- १) इंग्रजी
- २) हिंदी
- ३) कन्नड
- ४) मराठी
- ५) पाली
- ६) संस्कृत
- ७) उर्दू
- ८) अर्थशास्त्र
- ९) भूगोल
- १०) इतिहास
- ११) सैनिकशास्त्र
- १२) तत्त्वज्ञान
- १३) राज्यशास्त्र
- १४) लोकप्रशासन
- १५) समाजशास्त्र

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदवी-सीबीसीएस अभ्यासक्रम/
२०१८-१९/२५२

दिनांक : २५.०६.२०१८.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, यू.जी.सी. कक्ष, प्रस्तुत विद्यापीठ.

स्वाक्षरित /—

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग



**SWAMI RAMANAND TEERTH MARATHWADA
UNIVERSITY, NANDED**

SYLLABUS

SOCIOLOGY

B.A. Third Year

Semester V & VI

Semester Pattern

Choice Based Credit System (CBCS)

With effect from June 2018

Swami Ramanand Teerth Marathwada University, Nanded
Choice Based Credit System (CBCS) Course Structure
Faculty of Humanities
B.A. Third Year Syllabus
Semester Pattern With Effect From 2018-19
Subject: SOCIOLOGY

Sem.	Course	Paper No.	Name of Paper	Lecture/Week	Total No. of Lecture	CA	ESE	Total Marks	Credits
V th Sem.	DSE SOC DSE-A	I	Western Sociological Thinkers OR Modern Sociological Thinkers	04	55	35	40	75	03
	DGE SOC GE-A	I	Methods of Social Research	04	55	35	40	75	03
	SEC	III	Social Counseling-01	03	45	25	25	50	02
	Total			11	155	95	105	200	08
VI th Sem.	DSE SOC DSE-B	II	Modern Sociological Thought in India OR Fundamental Indian Sociological Thinkers	04	55	35	40	75	03
	DGE SOC GE-B	II	Techniques of Social Research	04	55	35	40	75	03
	SEC	IV	Social Counseling-02	03	45	25	25	50	02
	Total			11	155	95	105	200	08
Total V + VI Sem.				22	310	190	210	400	16

Note:

1. DSESOCI : *Discipline Specific Elective Course of Sociology*
2. DGESOCI : *Discipline Generic Elective Course of Sociology*
3. SEC : *Skill Enhancement Course*
4. CA : *Continuous Assessment*
5. ESE : *End of Semester Examinations*

End of Semester Examination
Question Paper Pattern
SOCIOLOGY
With Effect From 2018-19

	A) DSE and GE SOCIO : 40 Marks	
Q.	1) Descriptive question	10 Marks
	Or	
	Descriptive question	
Q.	2) Descriptive question	10 Marks
	Or	
	Descriptive question	
Q.	3) Descriptive question	10 Marks
	Or	
	Descriptive question	
Q.	4) Write short notes on (Any two)	10 Marks
	i)	
	ii)	
	iii)	
	iv)	
	B) Skill Enhancement Course (SEC) : 25 Marks	
	Skill development activities	10 Marks
	Theory examination by using university answer book	10 Marks
	Presentation	05 Marks

Swami Ramanand Teerth Marathwada University, Nanded

CBCS – Paper Pattern in the subject of Sociology

B.A. Third Year

With Effect from June 2018

Semester – V

Paper No.	Title of the Paper	Internal Marks (CA)	End Semester Exam (ESE)	Total CA + ESE
DSE SOC-I	Western Sociological Thinkers OR Modern Sociological Thinkers	35	40	75
DGE SOC-I	Methods of Social Research	35	40	75
SEC III	Social Counseling-01	25	25	50

Semester – VI

Paper No.	Title of the Paper	Internal Marks (CA)	End Semester Exam (ESE)	Total CA + ESE
DSE SOC-II	Modern Sociological Thought in India OR Fundamental Indian Sociological Thinkers	35	40	75
DGE SOC-II	Techniques of Social Research	35	40	75
SEC IV	Social Counseling-02	25	25	50

B.A. Third Year SOCIOLOGY CBCS Pattern Syllabus

Semester Vth

DSE – A : Western Sociological Thinkers – I

(With Effect from June 2018)

Credits: 03

Lecture: 55

Marks: 75

Outline:

Western sociological thinker's thoughts are the study of questions concerning human society and social relations also studying about development stages of sociology. It is intended to cover those who have made substantive contributions to social theory and research including any sociological sub field.

Objectives:

This course will help you to introduce with western social thinkers understand their analysis and build up your own ideas. How to students sociology is different from other social sciences also studying about development stages of sociology. It is intended to cover those who have made substantive contributions to social theory and research, including any sociology with sub field.

Utility:

Sociology is branch of social sciences that uses systematic methods. This course is to provide to the sociology students with the understanding of sociological theory. To train students for the application of these theories to social situations, acquaintance with the writing of these four thinkers, so as to equip the students with theoretical insights to know analysis and interpret the social scenario around them. An attempt to familiarize students with the different sociological perspectives and theories.

		Lecture	/	Marks
Chapter 01	Auguste Comte	14		19
	1. Biography of Auguste Comte			
	2. Law of Human Progress			
	3. Hierarchy of Sciences			
	4. Positivism			
Chapter 02	Herbert Spencer	14		19
	1. Biography of Herbert Spencer			
	2. Theory of Law of Evolution			
	3. Theory of Organismic Society			
	4. Types of Societies: Militant and Industrial Society			

Chapter 03	Emile Durkhiem	14	19
	1. Biography of Emile Durkhiem		
	2. Theory of Division of Labour		
	3. Theory of Suicide		
	4. Concept of Social Facts		
Chapter 04	Charles Horton Cooley	13	18
	1. Biography of C. H. Cooley		
	2. Colley's Thoughts on Primary Group		
	3. Concept of Looking Glass-self		
	4. Social Process		

Books Recommended:

1. Sharma, R.N. and Sharma, R.K. 1988. History of Social Thought. Bombay : Media Promoters and Publishers Pvt. Ltd.
2. Jatava, D.R. 1987. Evolution of Indian Social Thought. Jaipur : Bhora Publications
3. E.S. Bogardus. 1960. Development of Social Thoughts. Vakil Febber and Simons Pvt. Ltd.
4. R.N. Mukherjee. 1960. History of Social Thoughts. Mussorie : Saraswati Sadan
5. Harton, P.B. and Hunt C.L. 1976. Sociology (4th Edi.) Tokyo : MacGraw Hill
6. शर्मा, रामनाथ व शर्मा, राजेंद्रकुमार. २००१. प्रमुख समाजशास्त्रीय विचारक. नई दिल्ली : एटलांटिक पब्लिशर्स अॅन्ड डिस्ट्रीब्युटर्स
7. फुले, सुशिला, मानकर, लता. २००६. मूलभूत समाजशास्त्रीय विचारांचे आधार. औरंगाबाद : चिन्मय प्रकाशन
8. आगलावे, प्रदीप. १९९५. पाश्चात्य आणि भारतीय समाजशास्त्रज्ञ. नागपूर : श्री साईनाथ प्रकाशन.
9. मुखर्जी व रविंद्रनाथ. १९९०. सामाजिक विचारधारा. (कॉम्ट से मुकर्जी तक) दिल्ली : विवेक प्रकाशन.
10. वैद्य, नी.स. १९८७. सामाजिक विचारवंत. नागपूर : महाराष्ट्र विद्यापीठ ग्रंथ निर्मिती मंडळ.
11. पहाडिया, बी.एम. १९९२. सामाजिक विचारक. इंदौर : सतीश प्रिन्टर्स अॅन्ड पब्लिशर्स.
12. मुळे, कमल (संपा.) २००५. समाजशास्त्रीय विचारवंत. औरंगाबाद : विचार प्रकाशन.
13. जोशी, बा.ल. (संपा.) २०११. समाजशास्त्रीय विचारप्रवाह : अभिजात ते आधुनिक. औरंगाबाद : विचार प्रकाशन.
14. तंगलवाड, डी.एम. व घोडगे, डी.डी. २००७. समाजशास्त्रीय विचारवंत. औरंगाबाद : ज्ञानोदय प्रकाशन.
15. मोठे, दादासाहेब. २०१२. समाजशास्त्रीय विचारांचे मूलाधार. औरंगाबाद : चिन्मय प्रकाशन.
16. कुलकर्णी, पी.के. १९९१. सामाजिक विचारप्रवाह. नागपूर : मंगेश प्रकाशन.

Or Paper

B.A. Third Year SOCIOLOGY CBCS Pattern Syllabus

Semester Vth

DSE – A : Modern Sociological Thinkers – I
(With Effect from June 2018)

Credits: 03

Lecture: 55

Marks: 75

Outline:

Modern sociological thinker's sociological theories are theories of scope on ambition that were created in Europe between the early 1800s and the early 1900s understanding of the theories of influential social researchers, sociological theories is part attempts to provide a 'scientific' study all forms of human life.

Objectives:

This course will serve major trends in modern sociological thinker's thoughts. Theoretical thinking in sociology is needed if we are to explain and understand social life what sociology would be without its great sociological thinkers who have contributed so much to this branch of knowledge. A study of some of the major modern sociological thinkers Max Weber is one of the founding fathers of modern sociology with large influence on social, critical theory and cultural studies. Robert Merton's contribution to sociology is of great importance in the field of the functional perspective of society. George Simmel is best known as a micro-sociologist who played a significant role in the development of small group research. Vilfredo Pareto was responsible for popularising the use of the term 'elite' in social analysis.

Utility:

The aim of this course is to give an overview of modern sociological theory and understanding of some modern sociological perspectives. In developing conceptual framework for the analysis of non-logical element in human action. Additionally, the idea of these theorists continue in contemporary society the era of sociological framework.

		Lecture	/	Marks
Chapter 01	Max Weber	14		19
	1. Biography of Max Weber			
	2. Theory of Social Action			
	3. Concept of Authority			
	4. Concept of Bureaucracy			
Chapter 02	Robert K. Merton	14		19
	1. Biography of Robert Merton			
	2. Types of Function			
	3. Middle Range Theory			
	4. Anomie			
Chapter 03	George Simmel	14		19
	1. Biography of Simmel			
	2. Formal Sociology			
	3. Sociology of Conflict			
	4. Dialectical Method			
Chapter 04	Vilfredo Pareto	13		18
	1. Biography of Pareto			
	2. The Concept of Logical and Non-logical Action			
	3. Theory of Circulation of Elites			
	4. Methodology of Logico- Experimental Method			

Books Recommended :

1. Sharma, R.N. and Sharma, R.K. 1988. History of Social Thought. Bombay : Media Promoters and Publishers Pvt. Ltd.
2. Jatava, D.R. 1987. Evolution of Indian Social Thought. Jaipur : Bhora Publications
3. E.S. Bogardus. 1960. Development of Social Thoughts. Vakil Febber and Simons Pvt. Ltd.
4. R.N. Mukherjee. 1960. History of Social Thoughts. Mussorie : Saraswati Sadan
5. शर्मा, रामनाथ व शर्मा, राजेंद्रकुमार. २००१. प्रमुख समाजशास्त्रीय विचारक. नई दिल्ली : एटलॉटिक पब्लिशर्स अॅन्ड डिस्ट्रीब्युटर्स
6. फुले, सुशिला, मानकर, लता. २००६. मूलभूत समाजशास्त्रीय विचारांचे आधार. औरंगाबाद : चिन्मय प्रकाशन
7. आगलावे, प्रदीप. १९९५. पाश्चात्य आणि भारतीय समाजशास्त्रज्ञ. नागपूर : श्री साईनाथ प्रकाशन.
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SOCIOLOGY – CBCS Pattern
B.A. Third Year Syllabus Semester Vth
DGE – A : Methods of Social Research – I
(With Effect from June 2018)

Credits: 03

Lecture: 55

Marks: 75

Outline:

Research methodology is a hands on course designed to impart education in the foundational methods. Sociologists use scientific methods for good reason. The scientific method provides a system of organization that helps researchers plan and conduct the study while ensuring that data and results are reliable, valid and objective. Prepare a research proposal using appropriate research methods in order to meet a specified brief.

Objectives:

This course aims to provide an understanding of the nature of social phenomena. The issue involved in social research and the ways and means of understanding and studying social reality. Thus, the emphasis is threefold. Firstly, on the study of research methods as a means of understanding social reality. Second, the tools and techniques are only instruments and not the end or goal of research. Thirdly, there are different perspectives and methods (as a quantitative and qualitative research) of understanding social phenomena. There are no universally accepted methods for research.

Utility:

This course has importance in the field of sociological research. Research methodology will be providing a base for scientific thinking and rationalizing the minds, thoughts of students. This course has major aims to provide basic and fundamental knowledge of research methodology. This paper provides conceptual objectives, tools and techniques of research methodology. This course has also significance in providing scientific attitude and temper among the student of social sciences in general sociology in particular by doing this course, students will get job opportunities in the research institutions, teaching, research field, corporate and marketing sector.

		Lecture	Marks
Chapter 01	Social Research	14	19
	<ol style="list-style-type: none"> 1. Meaning & Characteristics of Social Research 2. Stages of Social Research 3. Importance of Social Research 		
Chapter 02	Objectivity	14	19
	<ol style="list-style-type: none"> 1. Meaning & Importance of Objectivity 2. Difficulties in Achieving Objectivity 3. Means for Achieving Objectivity in social research 		
Chapter 03	Hypothesis	14	19
	<ol style="list-style-type: none"> 1. Meaning & Characteristics of Hypothesis 2. Sources of Hypothesis 3. Importance of Hypothesis. 		
Chapter 04	Research Design	13	18
	<ol style="list-style-type: none"> 1. Meaning & Characteristics of Research Design 2. Necessity of Research Design. 3. Types of Research Design 		

Reference Book :

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3. Kumar, A. 1997. Social Research Method. New Delhi : Anmol Publication Pvt. Ltd.
4. Sharma, K.R. 2002. Research Methodology. Jaipur : National Publishing House.
5. Kothari, C.R. 1985. Research methodology : Methods and Techniques, New Delhi : Wiley Eastern.
6. Sadhu, A.N. and Singh, Amarjit. 1980. Research Methodology in Social Sciences. New Delhi : Himalaya Publication.
7. आगलावे, प्रदीप. २०१०. सामाजिक संशोधन पद्धती व तंत्रे. तिसरी आवृत्ती. नागपूर : श्री साईनाथ प्रकाशन.
8. कन्हाडे, बी.एम. २००७. शास्त्रीय संशोधन पद्धती. दुसरी आवृत्ती. नागपूर : श्री साईनाथ प्रकाशन.
9. गजेंद्रगड, व्ही.एन. २०००. राजकीय समाजशास्त्रीय संशोधन. डोंबिवली : प्रतिभा प्रकाशन.
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11. बोधनकर, सुधीर. १९९९. सामाजिक संशोधन पद्धती. नागपूर : श्री साईनाथ प्रकाशन.
12. भांडारकर, पु.ल. १९८७. सामाजिक संशोधन पद्धती. नागपूर : महाराष्ट्र विद्यापीठ ग्रंथ निर्मिती मंडळ
13. नाडगोंडे, गुरुनाथ. १९९९. सामाजिक संशोधन पद्धती. कोल्हापूर : फडके प्रकाशन.
14. पारसनिस, न.रा. १९९७. शिक्षणाची तात्त्विक व समाजशास्त्रीय भूमिका. पुणे : नूतन प्रकाशन.
15. बोरुडे, रा.र. २००५. संशोधन पद्धतीशास्त्र. पुणे : विद्यार्थीगृह प्रकाशन.
16. गावंडे, सुषमा. २००५. माहिती तंत्रज्ञान आणि माहिती प्रक्रिया. नागपूर : पिंपळापुरे अँड पब्लिशर्स.
17. कुंभोजकर, जी.व्ही. १९८२. संशोधन पद्धती व संख्याशास्त्र. कोल्हापूर : फडके अँड कंपनी.
18. करे, बिभिषण. २०१०. सामाजिक संशोधनाची मूलतत्त्वे. औरंगाबाद : विद्या बुक्स पब्लिशर्स.
19. आहुजा, राम. २००४. सामाजिक अनुसंधान. नवी दिल्ली : रावत पब्लिकेशन.
20. उपाध्ये, हरिश्चंद्र. १९९०. सामाजिक सर्वेक्षण, अनुसंधान एवं सांख्यिकी. नवी दिल्ली : एटलांटिक पब्लिशर्स.
21. लवानिया, एम.एम. व जैन, शशी. १९८८. समाजशास्त्रीय अनुसंधान का तर्क और विधियाँ. जयपुर : रिसर्च पब्लिकेशन.

SOCIOLOGY – CBCS Pattern
B.A. Third Year Syllabus
Semester Vth
SEC – III : Social Counseling – 1
(With Effect from June 2018)

Credits: 02

Lecture: 45

Marks: 50

Outline:

Counseling is the activity of counselor. Counselor counsels people. This paper focuses on some of the different factors. The success of counseling largely depends on the goals. The good counselor need on a professional basis to resolve especially personal, social or psychological problems and difficulties of the concerned. Counseling means “Listening to someone and giving that person advice about their problems or issue.”

Objectives:

This course would be play very vital roles in the different field of counseling. To introduce social counseling in sociology has very different kinds of Significance; social counseling has many challenges and issues in front of sociologist. In the contemporary era, sociology has very vital role in field of counseling to the individuals of the society for social progress and development. This course consists of important and primary methods of counseling such as case work, group work and community work. The aim of this course is to provide tools and techniques to the students for social counseling.

Utility :

“How should I live my life? and what should I do next?” These are the philosophical moral question, and the social counseling is designed to address in active and constructive ways. Good counseling helps student to build skill, they can use in solving their problems. Counseling is important because it gives the opportunity and offer a positive benefits which can enhance person life.

	Lecture	Marks
Chapter 01 Nature of Social Counseling	15	20
1. Social Counseling: Meaning & Definition		
2. Goals of Social Counseling		
3. Professional & Ethical Importance of Social Counseling		
4. Approaches of Social Counseling		
Chapter 02 Field Work Methods of Social Counseling	15	20
1. Case Work Method: Meaning, Principles and Process		
2. Group Work Method: Meaning, Principles and Process		
3. Community Work Method: Meaning, Principles and Process		
Chapter 03 Practical Work of Social Counseling (Any One)	15	10
1. Counseling of Addicted People		
2. Counseling of Farmers		
3. Counseling of Women		
4. Counseling of N.G.O. Workers		
5. Counseling for Superstition		

Note:

- 01) It is obligatory to conduct 45 lectures in one semester for skill enhancement course, per week 3 lectures, one for theory and two for practical's.
- 02) Student has to carry to practical work and submit a small report in 8 to 10 pages of above in any one issue out of five

Internal Practical: (25 Marks)

- Write a one Assignment (Concern Syllabus) – 10 Marks
- Concern teacher should take a test of total 05 Marks
- Write short survey/ practical report/small report any one (Concern syllabus) - 10 Marks

External Practical: (25 Marks)

- External Practical Exam is conducted by University at the end semester.

Reference Books:

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5. Ministry of Social Welfare Govt. of India; Encyclopedia of Social Work in India
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10. Namita Rangnathan Toolika Wadhwa: Guidance and counseling for children and Adolescents in schools, Sage Publication India Pvt. Ltd.
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15. Gongrade K.D. 2001. Working with community at the Gross root level : Strategies and programmes. New Delhi : Radha Publishers.
16. Feldman, R.S. 1997. Understanding Psychology, 4th Edition. New Delhi : McGraw Hill Publishing Co. Ltd.
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18. भिसे, रामचंद्र. २०१३. भारतीय समाज एवं महिला सक्षमीकरण. लातूर : विकास प्रकाशन.
19. साळीवकर, संजय. २०१५. समाजकार्याच्या प्रत्यक्ष स्वरूपाच्या पद्धती. नागपूर : मंगेश प्रकाशन.

SOCIOLOGY – CBCS Pattern

B.A. Third Year Syllabus

Semester VIth

DSE – B : Modern Sociological Thoughts in India – II

(With Effect from June 2018)

Credits: 03

Lecture: 55

Marks: 75

Outline:

Socially inculcated values, attitudes and habits of thought with which we make sense of social development theory attempts to explain qualitative changes in the structure and framework of society that help the society to better realize aims and objectives. This is an excellent introduction to the most influential modern thought and thinking of India.

Objective:

This course will help student to introduce with modern Indian Social Thinkers to understand their thoughts and build your own ideas. Basic objective of this course is to percolate and develop the philosophy and principles, to disseminate the constitutional literacy at grass root level of society, by following multidisciplinary approach of thinking for getting solution of social problems. Those who have made substantive contributions to social thoughts.

Utility:

This course has importance of understanding the thoughts of modern social reformers of the India. This course aims to orient the students of sociology towards the ideas, views and thoughts of the modern makers of the India. This course would help to enlighten the understanding of contemporary issues and challenges of the country. This course has relevance in sociological understanding which develops and build up capacities of the young generation of the country.

	Lecture	Marks
Chapter 01 Mahatma Jyotirao Phule	14	19
1. Biography of Mahatma Phule		
2. Mahatma Phule's Contribution of Farmer		
3. Mahatma Phule's Contribution of Education		
4. Mahatma Phule's Views on Religion.		
Chapter 02 Rajarshi Shahu Maharaj	14	19
1. Biography of Shahu Maharaj		
2. Rajarshi Shahu Maharaj Views on Reservation Policy		
3. Rajarshi Shahu Maharaj views on Education Policy		
4. Rajarshi Shahu Maharaj Contribution of Women Empowerment		

Chapter 03 Dr. Babasaheb Ambedkar 14 19

1. Biography of Ambedkar
2. Dr. Ambedkar as a Sociologist
3. Dr Babasaheb Ambedkar's Thoughts on Farming & Planning
4. Dr Babasaheb Ambedkar Thoughts on Labour Welfare

Chapter 04 Maharshi Vitthal Ramji Shinde 13 18

1. Biography of Vitthal Ramji Shinde
2. Maharshi Vitthal Ramji Shinde's Views on Devdasi & Murli
3. Maharshi Vitthal Ramji Shinde's Views on Peasant Movement
4. Contribution in Elimination of Untouchability

Reference Books:

१. फडके, य.दि. (संपा.) १९९१. महात्मा फुले समग्र वाङ्मय. मुंबई : महाराष्ट्र राज्य साहित्य आणि संस्कृती मंडळ.
२. किर, धनंजय, १९६८, महात्मा जोतिराव फुले. मुंबई : पॉप्युलर प्रकाशन
३. साळुंके पी. बी. (संपा), १९८२. महात्मा फुले गौरव ग्रंथ. मुंबई महाराष्ट्र राज्य शिक्षण विभाग मंत्रालय.
४. कीर, धनंजय. १९९१. राजर्षी शाहू छत्रपती एक समाजक्रांतिकारक राजा. मुंबई : पॉप्युलर प्रकाशन.
५. पवार, गो. मा., १९९०, विठ्ठल रामजी शिंदे, नवी दिल्ली : संचालक नॅशनल बुक ट्रस्ट इंडिया, ग्रीन पार्क
६. फडके, य. दि. १९७९. व्यक्ती आणि विचार, पुणे : श्री विद्या प्रकाशन, शनिवार पेठ
७. गायकवाड, शिवाजी पां., २०१०, महर्षी विठ्ठल रामजी शिंदे यांचे सामाजिक विचार, लातूर : मैत्री प्रकाशन
८. शिंदे, महर्षी विठ्ठल रामजी. १९५८, माझ्या आठवणी व अनुभव, पुणे : श्रीलेखन वाचन भांडार, लक्ष्मी रोड
९. मंगुडकर, ता.प. (संपा), १९६३, शिंदे लेख संग्रह, पुणे : ठोकळ प्रकाशन, प्रथम आवृत्ती
१०. खैरमोडे, चांगदेव. १९९६, डॉ. बाबासाहेब आंबेडकराचे चरित्र, पुणे : सुगावा प्रकाशन
११. पवार, जयसिंगराव, २००१, राजर्षी शाहू स्मारक ग्रंथ, कोल्हापूर: महाराष्ट्र इतिहास प्रबोधनी

१२. कांबळे, नारायण (संपा), २०११, राजर्षी शाहू : नव्या दिशा नवे चिंतन, औरंगाबाद : चिन्मय प्रकाशन
१३. पवार, जयसिंगराव, २०१२, राजर्षी शाहू छत्रपती जीवन व कार्य, कोल्हापूर : महाराष्ट्र इतिहास प्रबोधनी
१४. कांबळे, नारायण व इतर (संपा), २००८, आरक्षण सत्य व विपर्यास, औरंगाबाद : चिन्मय प्रकाशन
१५. भिसे, रामचंद्र २०१८. राजर्षी शाहू. परभणी : न्यु पब्लिकेशन.
१६. जाधव, रमेश. (संपा.) २०१६. राजर्षी शाहू गौरव ग्रंथ. सुधारित तिसरी आवृत्ती. मुंबई : महाराष्ट्र राज्य शिक्षण विभाग सचिवालय.
१७. पवार, गो.मा. (संपा.) २००९. महर्षी विठ्ठल रामजी शिंदे समग्र वाडमय खंड १ ला. मुंबई : महाराष्ट्र राज्य साहित्य आणि संस्कृती मंडळ.
१८. साळुंखे, पी.बी. व इतर (संपा.). १९९१. महात्मा फुले गौरव ग्रंथ. खंड पहिला. मुंबई : म.जोतिराव फुले चरित्र साधने प्रकाशन समिती.
१९. भगत, रा.तु. २००३. शिक्षण महर्षी शाहू महाराज. पुणे : सिद्धराज प्रकाशन.
२०. कीर, धनंजय. १९७०. प्रेषित राजर्षी शाहू छत्रपती. कोल्हापूर : शिवाजी विद्यापीठ शाहू स्मारक व्याख्यानमाला.
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२२. डॉ.बाबासाहेब आंबेडकर लेखन आणि भाषणे. खंड १८
२३. आगलावे, प्रदीप. १९९७. समाजशास्त्रज्ञ डॉ.आंबेडकर. नागपूर : श्री साईनाथ प्रकाशन.
२४. थोरात, सुखदेव. २०१०. बाबासाहेब आंबेडकर : नियोजन, जल व विद्युत विकास. : भूमिका व योगदान. पुणे : सुगावा प्रकाशन.
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२७. भद्रशेटे, सुनंदा व इतर. २०१४. समाजशास्त्रीय विचारवंत, लातूर: अरुणा प्रकाशन.

Or Paper

SOCIOLOGY – CBCS Pattern

B.A. Third Year Syllabus

Semester VIth

DSE – B : Fundamental Indian Sociological Thinkers – II

(With Effect from June 2018)

Credits: 03

Lecture: 55

Marks: 75

Outline:

The important features of the Indian social structure are predominant rural habitation in small villages. The sense of urgency in dealing with Indian's social, economic, religious and political problems. A further significance of India today comes from the geopolitics of South Asia.

Objectives:

Indian Sociological thinkers have contributed a lot of theories in Indian sociology which attempts to provide a 'scientific' study of all forms of human life. G. S. Ghurye is a towering figure in intellectual and academic circles for his unique contribution in the field of Indian Sociology. He emphasized on ideological approach in the study of social and cultural life of people in India. Irawati Karve was India's first women anthropologist. Her contribution in general caste system, kinship and village studies. A. R. Desai was a Indian Sociologist, who has consistently advocated and applied Marxist model in his sociological studies, Desai, including his classic study social background of Indian nationalism. M. N. Shrinivas was, the well known sociologist, recognized as architect of modern Indian sociologist and social anthropologist. He was mostly known for his work on caste and caste system, social stratification, sanskritisation and westernization in southern India and the concept of 'Dominant Cast' At last the objectives of this paper is improve logical and thinking skill.

Utility:

Indian philosophy refers to ancient philosophical tradition of the India subcontinent. The scientific temper is a way of life. A thinking process based on an evaluation of objectives facts, learn of the concepts of social change and social transformation in relation. Logical thinking is process of clearly moving from one related to another. Social science refers to our distinct cultural milieu and value attitude system.

		Lecture	/	Marks
Chapter 01	Dr. G. S. Ghurye	14		19
	1. Biography of Ghurye			
	2. Sociological Analysis of Caste System			
	3. Indo-logical Perspectives			
	4. Assimilation Approach			
Chapter 02	M. N. Shrinivas	14		19
	1. Biography of Shrinivas			
	2. Sanskritisation			
	3. Dominant Caste			
	4. Westernization			
Chapter 03	A. R. Desai	14		19
	1. Biography of Desai			
	2. Social Background of Indian Nationalism			
	3. Characterizes of Rural Society			
	4. Contribution of Indian Sociology			
Chapter 04	Dr. Iravati Karve	13		18
	1. Biography of Karve			
	2. Kinship System			
	3. Cultural meaning and its types			
	4. Contribution in Anthropology			

Reference Books:

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3. Dube S. C. 1973: Social Sciences in a Changing Society. Lucknow : University Press
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११. शर्मा, रामनाथ व शर्मा, राजेंद्रकुमार. २००१. प्रमुख समाजशास्त्रीय विचारक. नई दिल्ली : एटलांटिक पब्लिशर्स अॅन्ड डिस्ट्रीब्यूटर्स
१२. फुले, सुशिला, मानकर, लता. २००६. मूलभूत समाजशास्त्रीय विचारोंके आधार. औरंगाबाद : चिन्मय प्रकाशन
१३. आगलवावे, प्रदीप. १९९५. पाश्चात्य आणि भारतीय समाजशास्त्रज्ञ. नागपूर : श्री साईनाथ प्रकाशन.
१४. मुखर्जी व रविंद्रनाथ. १९९०. सामाजिक विचारधारा. (कॉम्ट से मुकर्जी तक) दिल्ली : विवेक प्रकाशन.
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१९. तंगलवाड, डी.एम. व घोडगे, डी.डी. २००७. समाजशास्त्रीय विचारवंत. औरंगाबाद : ज्ञानोदय प्रकाशन.
२०. धारवाडकर व भालेराव, २०१४, सामाजिक नियंत्रण एवं परिवर्तन, कानपूर: श्रीराम प्रकाशन
२१. नागला, बी.के. २०१५. भारतीय समाजशास्त्रीय चिंतन. जयपुर : रावत पब्लिकेशन.
२२. वाघ, राम. १९९१. समाजशास्त्रीय सिद्धांत. लातूर : न्यू रचना प्रकाशन.
२३. सहारे, पद्माकर. २०१५. भारतीय समाजविषयक दृष्टिकोन. औरंगाबाद : विद्या बुक्स पब्लिशर्स.

SOCIOLOGY – CBCS Pattern
B.A. Third Year Syllabus Semester VIth
DGE – B: Techniques of Social Research – II
(With Effect from June 2018)

Credits: 03

Lecture: 55

Marks: 75

Outline:

Social scientists divided into camps of support for particular research techniques. Evaluate, analyze and interpret qualitative data also identify appropriate statistical procedures to perform basic analysis of quantitative data. Sociological research is a complex process. The social sciences comprised a vast of research methods, models, measures, concepts and theories.

Objectives:

This course aims to provide an understanding of the nature of social phenomena. The issue involved in social research and the ways and means of understanding and studying social reality. Thus the emphasis is threefold. Firstly, on the study of research methods as a means of understanding social reality. Second, the tools and techniques are only instruments and not the end or goal of research. Thirdly, there are different perspectives and methods (as a quantitative and qualitative research) of understanding social phenomena. There are no universally accepted methods.

Utility:

This course has importance in the field of sociological research. Research methodology will be providing base for scientific thinking and rationalizing the minds, thoughts of students. This course has major aims to provide basic and fundamental knowledge of research methodology. This paper provides conceptual objectives, tools and techniques of research methodology. This course has also significance in providing scientific attitude and temper among the student of social sciences in general sociology in particular by doing this course, students will get job opportunities the research institutions, teaching, research field corporate and marketing field.

	Lecture	Marks
Chapter 01 Data Collection	14	19
1. Meaning of Data Collection		
2. Characteristics of Data Collection		
3. Methods of Data Collection: Primary & Secondary		
Chapter 02 Techniques of Data Collection	14	19
1. Questionnaire: Meaning & Types		
2. Interview: Meaning & Importance		
3. Schedule: Meaning & Objectives		
4. Observation: Meaning & Importance		
Chapter 03 Sampling Techniques	14	19
1. Meaning of Sampling		
2. Type of Sampling :		
Probability sampling: Simple Random Sampling, Stratified Random Sampling		
3. Non Probability Sampling, Purposive Sampling, Quota Sampling		
Chapter 04 Research Report Writing	13	18
1. Meaning of Research Report Writing		
2. Objectives of social report		
3. Significance of Computer in Social Research		

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2. Good William J. and Hatt Paul R. 1981. Methods in Social Research. New Delhi : McGraw Hill International Book Comp.
3. Kumar, A. 1997. Social Research Method. New Delhi : Anmol Publication Pvt. Ltd.
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5. Kothari, C.R. 1985. Research methodology : Methods and Techniques, New Delhi : Wiley Eastern.
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7. आगलावे, प्रदीप. २०१०. सामाजिक संशोधन पद्धती व तंत्रे. तिसरी आवृत्ती. नागपूर : श्री साईनाथ प्रकाशन.
8. कन्हाडे, बी.एम. २००७. शास्त्रीय संशोधन पद्धती. दुसरी आवृत्ती. नागपूर : श्री साईनाथ प्रकाशन.
9. गजेंद्रगड, व्ही.एन. २०००. राजकीय समाजशास्त्रीय संशोधन. डोंबिवली : प्रतिभा प्रकाशन.
10. घाटोळे, रा.ना. २०००. समाजशास्त्रीय संशोधन तत्त्वे व पद्धती. नागपूर : मंगेश प्रकाशन.
11. बोधनकर, सुधीर. १९९९. सामाजिक संशोधन पद्धती. नागपूर : श्री साईनाथ प्रकाशन.
12. भांडारकर, पु.ल. १९८७. सामाजिक संशोधन पद्धती. नागपूर : महाराष्ट्र विद्यापीठ ग्रंथ निर्मिती मंडळ
13. नाडगोंडे, गुरुनाथ. १९९९. सामाजिक संशोधन पद्धती. कोल्हापूर : फडके प्रकाशन.
14. पारसनिस, न.रा. १९९७. शिक्षणाची तात्त्विक व समाजशास्त्रीय भूमिका. पुणे : नूतन प्रकाशन.
15. बोरुडे, रा.र. २००५. संशोधन पद्धतीशास्त्र. पुणे : विद्यार्थीगृह प्रकाशन.
16. गावडे, सुषमा. २००५. माहिती तंत्रज्ञान आणि माहिती प्रक्रिया. नागपूर : पिंपळापुरे अँड पब्लिशर्स.
17. कुंभोजकर, जी.व्ही. १९८२. संशोधन पद्धती व संख्याशास्त्र. कोल्हापूर : फडके अँड कंपनी.
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20. उपाध्ये, हरिश्चंद्र. १९९०. सामाजिक सर्वेक्षण, अनुसंधान एवं सांख्यिकी. नवी दिल्ली : एटलांटिक पब्लिशर्स.
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SOCIOLOGY – CBCS Pattern
B.A. Third Year Syllabus
Semester VIth
SEC – III : Social Counseling – 2
(Effective from June 2018)

Credits: 02

Lecture: 45

Marks: 50

Outline:

Counseling is the activity of counselor. Counselor counsels people. This paper focuses on some of the different factors. The success of counseling largely depends on the goals. The good counselor need on a professional basis to resolve especially personal, social or psychological problems and difficulties of the concerned. Counseling means “Listening to someone and giving that person advice about their problems or issue.”

Objectives:

This course has aim to introduce moral ethics and values which would be helpful for the sustainable development of the human society. Since beginning sociologists had given importance on the values, moral, ethics, culture of the human society. For the same, this course has importance in the course to the different actors of the society. This course has field work and field visit camp to provide opportunities to students to understands issues and problem for solutions and adopt the counseling skills.

Utility :

“How should I live my life? and what should I do next?” These are the philosophical moral question, and the social counseling is designed to address in active and constructive ways. Good counseling helps student to build skill, they can use in solving their problems. Counseling is important because it gives the opportunity and offer a positive benefits which can enhance person life.

	Lecture	Marks
Chapter 01 Value & Ethics in Social Counseling	15	20
1. Meaning & Definition of Values		
2. Meaning & Definition of Ethics		
3. Culture & Values		
Chapter 02 Scope and Need Social Counseling	15	20
1. Personality Development: Meaning & Factors		
2. Family Counseling: Domestic Violence, Old Age		
3. Communication Skill: Meaning & Significance		
Chapter 03 Practical Work of Social Counseling	15	10
1. Generation Gap Counseling		
2. Visit to Family Counseling Centre		
3. Counseling for Old Age		
4. Counseling for Domestic Violence against Women		
5. Counseling for Career Guidance		
6. Importance of Pre-marriage Counseling		

Note:

- 01) It is obligatory to conduct 45 lectures in one semester for skill enhancement course, per week 3 lectures, one for theory and two for practical's.
- 02) Student has to carry to practical work and submit a small report in 8 to 10 pages of above in any one issue out of six.

Internal Practical: (25 Marks)

- Write a one Assignment (Concern Syllabus) – 10 Marks
- Concern teacher should take a test of total 05 Marks
- Write short survey/ practical report/small report any one (Concern syllabus) - 10 Marks

External Practical: (25 Marks)

- External Practical Exam is conducted by University at the end semester.

Reference Books:

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8. Madan, G. R., Indian Social Problems
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21. भिसे, रामचंद्र मुंजाजी. २०१३. भारतीय समाज एवं महिला सशक्तीकरण. विकास प्रकाशन. कानपुर.
22. साळीवकर, संजय. २०१५. समाजकार्याच्या प्रत्यक्ष स्वरूपाच्या पद्धती. नागपूर : मंगेश प्रकाशन.



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड— ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

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मानवविज्ञान विद्याशाखेतील पदवी
स्तरावरील तृतीय वर्षाचे CBCS Pattern
नुसारचे अभ्यासक्रम शैक्षणिक वर्ष
२०१८-१९ पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक १४ जून २०१८ रोजी संपन्न झालेल्या ४१व्या मा. विद्या परिषद बैठकीतील विषय क्र.११/४१-२०१८ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील तृतीय वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१८-१९ पासून लागू करण्यात येत आहेत.

- १) इंग्रजी
- २) हिंदी
- ३) कन्नड
- ४) मराठी
- ५) पाली
- ६) संस्कृत
- ७) उर्दू
- ८) अर्थशास्त्र
- ९) भूगोल
- १०) इतिहास
- ११) सैनिकशास्त्र
- १२) तत्त्वज्ञान
- १३) राज्यशास्त्र
- १४) लोकप्रशासन
- १५) समाजशास्त्र

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदवी-सीबीसीएस अभ्यासक्रम/
२०१८-१९/२५२

दिनांक : २५.०६.२०१८.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, यू.जी.सी. कक्ष, प्रस्तुत विद्यापीठ.

स्वाक्षरित /—

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

سوامی رامانند تیرتھ مراٹھواڑہ یونیورسٹی نانڈیڈ، مہاراشٹرا

FACULTY OF HUMANITIES

شعبہ بشریات

SYLLABUS OF URDU

نصاب برائے اردو

B.A. THIRD YEAR

بی۔ اے۔ سال سوم

Semester + CBCS Pattern

میقات + سی بی سی ایس

Semester V & VI

میقات پنجم و ششم

With effect from June 2018

رُوبہ عمل جون ۲۰۱۸

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Distribution of Credits for

B.A. (THIRD YEAR) Urdu

Semester V Paper : DSE-URD-I ,DGE-URD-I & SEC –III

Semester VI Paper : DSE-URD-II ,DGE-URD-II & SEC –IV

Semester	Paper Code	Title of Paper	Lectures Per Week	Total Periods	Internal Evaluation (C.A.)	Marks of ESE	Total Marks	Credits
V	DSE Urd-I	Tareekh e Urdu Zaban o Adab	04	55	35	40	75	03
	DGE URD-I	Adabi Tanqeed	04	55	35	40	75	03
	SEC-III	Mass Media aur Inpage	03	45	25	25	50	02
VI	DSE URD-II	Tareekh e Urdu Adab	04	55	35	40	75	03
	DGE URD-II	Adabi Tanqeed	04	55	35	40	75	03
	SEC -IV	Ishtehar Sazi aur Namanigari	03	45	25	25	50	02
		Total Semester V & VI	22	310	190	210	400	16

B.A. Third Year
Semester V CBCS Pattern
Urdu Optional
Paper Code: DSE-URD-I
Tareekh-E-Urdu Zaban-O-Adab

بی۔ اے۔ سال سوم
میقات پنجم (میقات + سی بی سی ایس)
اُردو (اختیاری) ڈی ایس ای یو آر ڈی۔ ا
تاریخ اُردو زبان و ادب

Aims & Objectives

اغراض و مقاصد

- 1) To improve the knowledge about 'Tareekh-e-Urdu zaban-o- adab'
- 2) To improve the knowledge about 'Urdu adab'
- 3) To explain the various theories about origin of 'Urdu language'

- ۱) اردو زبان کی تاریخ سے متعلق معلومات میں اضافہ کرنا
- ۲) اردو ادب سے متعلق معلومات میں اضافہ کرنا
- ۳) اردو زبان کی ابتدا سے متعلق مختلف نظریات کے تعلق سے اضافہ کرنا۔

Topics For Discussions

موضوعات بحث

1) Urdu Zaban:

Zaban ki tareef , zarurat aur ahmiyat

Urdu zaban ka aagaz-o-irteqa'

Urdu ki Ibteda se mutaliq Mukhtalif Nazriyat

۱۔ اردو زبان:
زبان کی تعریف، ضرورت اور اہمیت

اردو زبان کا آغاز و ارتقا

اردو کی ابتدا سے متعلق مختلف نظریات

2) Dakani adab ka aagaz-o-irteqa'

Qutub Shahi ahed

Aadil Shahi ahed

Aalamgiri ahed (Wali, Siraj)

۲۔ دکنی ادب کا آغاز و ارتقا
قطب شاہی عہد
عادل شاہی عہد
عالمگیری عہد (ولی اور سراج کے حوالے سے)

3) 'Fort-William College Ki Adabi
Khidmaat'

4) 'Shora-E-Ahde-Mutawassiteen'

Meer Taqi Meer

Mirza Ghalib

Ibrahim Zauq

Momin Khan Momin

Altaf Hussin Hali

5) 'Shora-e- Ahed-e-Jadeed

- Allama Iqbal
- Josh Malihabadi
- Makhdoom Mohiuddin
- Khursheed Ahmad Jami
- Qamar Iqbal

۳۔ فورٹ ولیم کالج کی ادبی خدمات

۴۔ شعرائے عہدِ متوسطین

میر تقی میر

مرزا غالب

ابراہیم ذوق

مومن خان مومن

الطاف حسین حالی

۵) شعرائے عہدِ جدید

• علامہ اقبال

• جوش ملیح آبادی

• مخدوم محی الدین

• خورشید احمد جامی

• قمر اقبال

Total Periods : 55

Theory marks: 40

Theory Periods : 45

C.A (Continuous Assessment) Marks : 35 Periods : 10

1) Two class test during V Semester for 10 Marks each

2) One assignment during V semester for 15 Marks

**SWAMI RAMANAND TEERTH
MARATHWADA UNIVERSITY, NANDED**

سوامی رمانند تیرتھ مراٹھواڑہ یونیورسٹی، نانڈیڈ

**Question Paper Pattern
&
Marks Distribution of Semester V
Paper Code : DSE-URDU-I**

Credits -03

(C.A.=35 + ESE=40 Total=75)

Q.1 : One long answer type question on

Urdu zaban ka irteqa/Qutub Shahi ahed

with Internal Option

10 marks

Q.2 : One long answer type question on

Shora- e- ahed-e- mutawassiteen / Adil Shahi ahed

with Internal Option

10 marks

Q.3 : One long answer type question on

Shoara e ahed e jadeed/ fort william college

10 marks

Q.4 : Write short notes on any topic of syllabus:

Any two out of four

10 Marks

Total ESE = 40 Marks

*C.A.(Continuous Assesment) = 35 Marks

Total = 75 Marks

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**Books Recommended for
Paper Code : DSE –URD-I
Tareekh e Urdu Zaban o Adab
Semester V**

- | | |
|---|--|
| 1) Tareekh-e-Adab Urdu Noor Hasan Naqvi | (۱) تاریخ ادب اردو۔۔۔ نور الحسن نقوی |
| 2) Tareekh-Adab Urdu Dr. Jameel Jalabi | (۲) تاریخ ادب اردو۔۔۔ جمیل جالبی |
| 3) Taareeqe-Adab Urdu Ram Babu Saksena | (۳) تاریخ ادب اردو۔۔۔ رام بابو سکینہ |
| 4) Khurshid ahmed jami –shaksiyet aur shairi---Syed Mahemood khawar | (۴) خورشید احمد جامی شخصیت اور شاعری۔۔۔ سید محمود خاور |
| 5) Taareeqe-Urdu-Adab Gyanchand Jain/Prof. Sayyada Jafar | (۵) تاریخ ادب اردو۔۔۔ سیدہ جعفر، گیان چند جین |
| 6) Dakani Urdu Nasiruddin Hashmi | (۶) دکن میں اردو۔۔۔ نصیر الدین ہاشمی |
| 7) Dakani Adab ki Tareeqe Mohiuddin Quadri Zor | (۷) دکنی ادب کی تاریخ۔۔۔ محی الدین قادری زور |
| 8) Panjab mein Urdu Mahemood Sheerani | (۸) پنجاب میں اردو۔۔۔ محمود شیرانی |
| 9) Maqadama-e-Tareeqe-e-Zaban-e-Urdu Masood Hasan Khan | (۹) مقدمہ تاریخ زبان اردو۔۔۔ مسعود حسن خان |
| 10) Muqtasar Tareeqe-e-Adab Urdu Sayed Aijaz Hussain | (۱۰) مختصر تاریخ ادب اردو۔۔۔ سید اعجاز حسین |
| 11) Urdu Adab ki ek Sadi Sayed Abdulla | (۱۱) اردو ادب کی ایک صدی۔۔۔ سید عبداللہ |
| 12) Urdu Lisaniyaat Shaukat Sabzwari | (۱۲) اردو لسانیات۔۔۔ شوکت سبزواری |
| 13) Mom ka Shaher --Qamar Iqbal | (۱۳) موم کا شہر۔۔۔ قمر اقبال |

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B.A. Third Year
Semester V CBCS Pattern
Urdu Optional
Paper : DGE-URD-1
Adabi Tanqeed

بی۔ اے۔ سال سوم
میقات پنجم (میقات + سی بی سی ایس)
اُردو (اختیاری) ڈی جی ای یو آر ڈی۔ ۱
ادبی تنقید

Aims & Objectives

- 1) To improve the knowledge about 'literary criticism '
- 2) To improve the knowledge about 'literary theories '
- 3) To improve the knowledge about old Urdu criticism'
- 4) To improve the knowledge about schools of criticism

اغراض و مقاصد

- ۱) اردو ادبی تنقید سے متعلق معلومات میں اضافہ کرنا
- ۲) تنقیدی نظریات سے متعلق معلومات میں اضافہ کرنا
- ۳) تنقید کے ابتدائی سرمائے سے متعلق معلومات میں اضافہ کرنا۔
- ۴) تنقید کے مختلف دبستان سے متعلق معلومات میں اضافہ کرنا۔

Topics For Discussions

- 1) 'Adab kya hai?
- 2) Tanqeed ki tareef, zarurat aur ahmiyat

موضوعات بحث

- ۱) ادب کیا ہے؟
- ۲) تنقید کی تعریف، ضرورت اور اہمیت

- 3) Urdu tanqeed ke usool
4) Urdu tanqeed ka qadeem sarmaya
5) Urdu tanqeed ka Irteqa
6) Tanqeed ke dabistan
- Roomani tanqeed
 - Taraqqi pasand tanqeed
 - Jamaaliyati tanqeed
 - Scientific tanqeed
 - Nafsiyati tanqeed

- ۳) اردو تنقید کے اصول
۴) اردو تنقید کا قدیم سرمایہ
۵) اردو تنقید کا ارتقا
۶) تنقید کے دبستان
- رومانی تنقید
 - ترقی پسند تنقید
 - جمالیاتی تنقید
 - سائنٹفک تنقید
 - نفسیاتی تنقید

Total Periods : 55

Theory marks: 40

Theory periods : 45

C.A (Continuous Assessment) Marks : 35 Periods : 10

1) Two class test during V Semester for 10 Marks each

2) One assignment during V semester for 15 Marks

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سوامی رمانند تیرتھ مراٹھواڑہ یونیورسٹی، نانڈیڈ

**Question paper pattern
&
Marks distribution of semester V
Paper : DGE-URD-1**

Credits -03

(C.A.=35 + ESE=40 Total=75)

- Q.1 :** One long answer type question on tanqeed ki tarif aur usool/zarurat o ahmiyat / tanqeed aur adab ka rishta
with Internal Option **10 marks**
- Q.2 :** One long answer type question on 'Urdu tanqeed ka irteqa / qadeem Urdu tanqeedi sarmaya
with Internal Option **10 marks**
- Q.3 :** One long answer type question on:
tanqeed ke dabistan **10 marks**
- Q.4 :** Write short notes on (any two out of four):
from any topic of syllabus **10 Marks**

Total ESE = 40 Marks

***C.A.(Continuous Assessment) = 35 Marks**

Total = 75 Marks

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سوامی رمانند تیرتھ مراٹھواڑہ یونیورسٹی، نانڈیڈ

**Books Recommended for
Paper : DGE-URD-I
Adabi Tanqeed
Semester V**

- | | |
|---|--|
| 1) Urdu Shora ke Tazkere Dr. Hanif Naqvi | ۱) اردو شعرا کے تذکرے۔ ڈاکٹر حنیف نقوی |
| 2) Aab-e-Hayat Md. Hussain Azad | ۲) آبِ حیات۔۔۔ محمد حسین آزاد |
| 3) Muqaddama-e- shair-o-shairi Altaf Hussain Hali | ۳) مقدمہ شعر و شاعری۔ الطاف حسین حالی |
| 4) Shairul Ajam Shibli Nomani | ۴) شعرا العجم۔۔۔ شبلی نعمانی |
| 5) Urdu Tanqeed per Ek Nazar Kaleemuddin Ahmed | ۵) اردو تنقید پر ایک نظر۔ کلیم الدین احمد |
| 6) Urdu Shairi per Ek Nazar Kaleemuddin Ahmed | ۶) اردو شاعری پر ایک نظر۔ کلیم الدین احمد |
| 7) Tanqeed Kya Hai... A.A. Suroor | ۷) تنقید کیا ہے؟۔۔۔ آل احمد سرور |
| 8) Urdu Tanqeed ka Irteqa... Dr. Ibadat Barelvi | ۸) اردو تنقید کا ارتقا۔۔۔ عبادت بریلوی |
| 9) Urdu Tanqeed ke Tareeqe... Masihu-z-zama | ۹) اردو تنقید کی تاریخ۔۔۔ مسیح الزماں |
| 10) Fan-e-Tanqeed aur Tanqeed NigariNoorul-Hasan Naqvi | ۱۰) فنِ تنقید اور اردو تنقید نگاری۔۔۔ نور الحسن نقوی |
| 11) Tanqeed aur Ehtesaab... Vazir Aagha | ۱۱) تنقید اور احتساب۔۔۔ وزیر آغا |
| 12) Usool-e-Inteqadiyaat Adabiyat... Abid Ali Abid | ۱۲) اصول انتقادیاتِ ادبیات۔۔۔ عابد علی عابد |
| 13) Classici Maghribi Tanqeed.. Dr. Md. Yaseen | ۱۳) کلاسیکی مغربی تنقید۔۔۔ ایم۔ یسین |

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B.A. (Third Year)

Skill Enhancement Courses

Semester +CBCS Pattern Structure

Semester – V Paper - III

Mass media aur Urdu Inpage (SEC-III)

Credits -02 Total periods : 45

C.A- Two written test 10 marks each , one assignment ,15marks Total =25

ESE Practical = 25 Marks

(Two Questions 5+5=10 marks,Skill work Report =10,overall Judgement = 5 ,=25)

1.Mass media

Topic for Discussion

1.Sahafat ki tareef, ahmiyat aur qismen

2. Print Media

3.Radio aur TV

4.Social Media

2.Urdu Inpage

1. Inpage Urdu ka Ta'rruf

2. File settings

3. Tools settings

4. Composing

Reference Book:

Mass media aur Urdu inpage

Edited by

Dr.Hamid Ashraf Dr. Iqbal Jawed

۱۔ ماس میڈیا

موضوعات بحث

۱۔ صحافت : تعریف، اہمیت اور قسمیں

۲۔ پرنٹ میڈیا

۳۔ ریڈیو اور ٹی وی

۴۔ سوشل میڈیا

۲۔ ان پیج اردو

۱۔ ان پیج اردو کا تعارف

۲۔ فائل ترتیبات

۳۔ ٹولس ترتیبات

۴۔ کمپوزنگ

حوالہ جاتی کتب: ماس میڈیا اور اردو ان پیج

مترتبین: ڈاکٹر حامد اشرف، ڈاکٹر محمد اقبال جاوید

**SWAMI RAMANAND TEERTH
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B.A. (Third Year)

Skill Enhancement Courses

Semester +CBCS Pattern Structure

Semester – VI Paper - IV

Ishtihar Sazi aur Namanigari (SEC-IV)

Credits -02 Total periods : 45 C.A- Marks-25

(Two written test 5+5 Marks = 10 Assignment = 15 Total =25)

ESE Practical = 25 Marks

(Two Questions Marks 5+5= 10 ,Skill work Report =10 , Judgement = 5 Total =25)

1. Ishtihar Sazi

Topic for Discussion:

1. Ishtihar ki tareef, zarurat aur
Ahmiyat

2. Ishtihar ki Zaban aur fan

3. Ishtihar ke Qismen aur Zarae
(Akhbar, Radio, TV)

4. Ishtihar ke usool

2. Namanigari

1. Namanigari ki tareef, zarurat o
ahmiyat

2. Namanigar ki khususiyat aur firasat

3. Namanigari ke bunyadi usool

4. Namanigari ki Qismen

(Taqaarir, Police aur
Akhbar, Khelkud, Adabi o saqafati)

Reference Books:

(1) Rahnuma e Ishtihar Sazi aur Nama nigari

Edited by Dr. Mohd. Maqbool Ahmed &

Dr. Shaikh Maheboob

(2) Rehbar e akhbar nawesi

By Syed Iqbal Qadri

(3) Urdu Mass media

By Khawaja M. Ikramuddin

۱۔ اشتہار سازی

موضوعات بحث:

۱۔ اشتہار کی تعریف، ضرورت اور اہمیت

۲۔ اشتہار کی زبان

۳۔ اشتہار کی قسمیں اور ذرائع

(اخبار، ریڈیو اور ٹی وی)

۴۔ اشتہار کے اصول

۲۔ نامہ نگاری:

۱۔ نامہ نگاری کی تعریف، ضرورت و اہمیت

۲۔ نامہ نگار کی خصوصیات اور فراسات

۳۔ نامہ نگاری کے بنیادی اصول

۴۔ نامہ نگاری کی قسمیں (تقاویر، پولیس اور اخبارات، کھیل کود

، ادبی و ثقافتی نامہ نگاری)

حوالہ جاتی کتب:

(1) رہنمائے اشتہار سازی اور نامہ نگاری

مرتبین: ڈاکٹر محمد مقبول احمد، ڈاکٹر شیخ محبوب

(۲) رہبر اخبار نویسی: مصنف سید اقبال قادری

(۳) اردو میڈیا: مرتب: خواجہ محمد اکرام الدین

**SWAMI RAMANAND TEERTH
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B.A. Third Year
Semester VI CBCS Pattern
Urdu Optional
Paper: DSE-URD-II
Tareekh-e-Urdu Zaban o adab

بی۔ اے۔ سال سوم
میقات ششم (میقات + سی بی سی ایس)
اردو (اختیاری) ڈی ایس ای پرچہ نمبر ۱۱
تاریخ اردو زبان و ادب

Aims & Objectives

اغراض و مقاصد

1) To improve the knowledge about various literary forms of prose

۱) اردو ادب کی نثری اصناف سے متعلق معلومات میں اضافہ کرنا

2) To improve the knowledge about literary movements of Urdu

۲) اردو کی ادبی تحریکات سے متعلق معلومات میں اضافہ کرنا۔

Topics For Discussions

موضوعات بحث

1) Urdu ki nasri asnaf

۱۔ اردو کی نثری اصناف کا ارتقا

- Drama
- Novel
- Afsana
- Inshaiya
- Khaka

- ڈراما
- ناول
- افسانہ
- انشائیہ
- خاکہ

2) Adabi Tahrikaat

۲۔ ادبی تحریکات

- Aligarh tahreek

- علی گڑھ تحریک

- Anjman e panjab ki tahreek
- Halqa- e -arbab –e- zauq
- Rumaniyat ki tahreek

- انجمن پنجاب کی تحریک
- حلقہ ارباب ذوق
- رومانیت کی تحریک

Total periods : 55

Theory : marks: 40

Theory Periods : 45

C.A (Continuous Assessment) Marks : 35 Periods : 10

1) Two class test during V Semester for 10 marks each

2) One assignment during V semester for 15 marks

**SWAMI RAMANAND TEERTH
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سوامی رمانند تیرتھ مراٹھواڑہ یونیورسٹی، نانڈیڈ

Question Paper Pattern

&

Marks Distribution of Semester VI

Paper : DSE-URD-II

Credits -03

(C.A.=35 + ESE=40 Total=75)

Q.1 : One long answer type question on

Urdu ki nasri asnaf with Internal Option

10 marks

Q.2 : One long answer type question on

adabi tahreekaat with Internal Option

10 marks

Q.3 : One long answer type question on

Urdu ki nasri asnaf and adabi tahreekat

10 marks

Q.4 : Write short notes on any topic of syllabus:

Any two out of four

10 Marks

Total ESE = 40 Marks

***C.A.(Continuous Assesment) = 35 Marks**

Total = 75 Marks

**SWAMI RAMANAND TEERTH
MARATHWADA UNIVERSITY, NANDED**

سوامی رمانند تیرتھ مراٹھواڑہ یونیورسٹی، نانڈیڈ

**Books recommended for
Paper :DSE-URD-II
Tareekh- e- Urdu adab
Semester VI**

- 1) Tareekh-e-Adab Urdu Noor Hasan Naqvi (۱) تاریخ ادب اردو۔۔۔ نور الحسن نقوی
- 2) Tareekh-Adab Urdu Dr. Jameel Jalabi (۲) تاریخ اردو ادب۔۔۔ جمیل جالبی
- 3) Taareeqe-Adab Urdu Ram Babu Saksena (۳) تاریخ اردو ادب۔۔۔ رام بابو سکسینہ
- 4) Jadeed Urdu Afsane ka fanni o Techniqui mutalia Dr.Hamidullah Khan (۴) جدید اردو افسانہ کا فنی و تکنیکی مطالعہ۔ ڈاکٹر حمید اللہ خان
- 5) Taareeqe-Urdu-Adab Gyanchand Jain/Prof. Sayyada Jafar (۵) تاریخ ادب اردو۔۔۔ سیدہ جمعفر، گیان چند جین
- 6) Dakani Urdu Nasiruddin Hashmi (۶) دکن میں اردو۔۔۔ نصیر الدین ہاشمی
- 7) Dakani Adab ki Tareeqe Mohiuddin Quadri Zor (۷) دکنی ادب کی تاریخ۔۔۔ محی الدین قادری زور
- 8) Panjab mein Urdu Mahemood Sheerani (۸) پنجاب میں اردو۔۔۔ محمود شیرانی
- 9) Muqaddima-e-Tareekh-e-Zaban-e-Urdu... Masood Hasan Khan (۹) مقدمہ تاریخ زبان اردو۔۔۔ مسعود حسن خان
- 10) Muqtasar Tareequ-e-Adab Urdu Sayed Aijaz Hussain (۱۰) مختصر تاریخ ادب اردو۔۔۔ سید اعجاز حسین
- 11) Urdu Adab ki ek Sadi Sayed Abdulla (۱۱) اردو ادب کی ایک صدی۔۔۔ سید عبداللہ
- 12) Urdu Adab ki Tehriken Dr.Anwer Sadeed (۱۲) اردو ادب کی تحریکیں۔۔۔ انور سدید
- 13) Zaban Kya hai ? Khaleel Ahmed (۱۳) زبان کیا ہے؟۔۔۔ خلیل احمد

SWAMI RAMANAND TEERTH

MARATHWADA UNIVERSITY, NANDED

سوامی راما نند تیرتھ مراٹھواڑہ یونیورسٹی، نانڈیڈ

B.A. Third Year
Semester VI CBCS Pattern
Urdu optional
Paper : DGE-URD-II
Adabi tanqeed

بی۔ اے۔ سال سوم
میقات ششم (میقات + سی بی سی ایس)
اردو (اختیاری) ڈی جی ای پرچہ نمبر ۱۲
ادبی تنقید

Aims & Objectives

اغراض و مقاصد

- 1) To improve the knowledge about 'important Urdu critics'
- 2) To improve the knowledge about important western critics

۱) اردو کے اہم تنقید نگاروں سے متعلق معلومات میں اضافہ کرنا
۲) مغرب کے اہم تنقید نگاروں سے متعلق معلومات میں اضافہ کرنا

Topics For Discussions

موضوعات بحث

- 1- Urdu ke aham tanqeed nigar
Altaf Hussain Hali
Allama Shibli Nomani
M.Hussain Azad
Kaleemoddin Ahmad
A.R.Bijnoori
Ehtesham Hussain

۱۔ اردو کے اہم تنقید نگار:
الطاف حسین حالی
علامہ شبلی نعمانی
محمد حسین آزاد
کلیم الدین احمد
عبدالرحمان بجنوری
احتشام حسین

Ale Ahmad Suroor
Shamsur Rahman Farooqi

آل احمد سرور
شمس الرحمن فاروقی

2- Magribi tanqeed nigar
Aflatoon

۲- مغربی تنقید نگار:
افلاطون

Arastu

ارسطو

Methew Arnold

میٹھیو آرنالڈ

Fried

فرائیڈ

T.S.Eliot

ٹی۔ ایس۔ ایلینٹ

I.A.Richards

آئی۔ اے۔ رچرڈس

Total Periods : 55

Theory marks: 40 Theory Periods : 45

C.A (Continuous Assessment) Marks : 35 Periods : 10

1) Two class test during VI Semester for 10 Marks each

2) One assignment during VI semester for 15 Marks

**SWAMI RAMANAND TEERTH
MARATHWADA UNIVERSITY, NANDED**

سوامی رمانند تیرتھ مراٹھواڑہ یونیورسٹی، نانڈیڈ

**Question Paper Pattern
&
Marks Distribution of Semester VI
Paper : DGE-URD-II**

Credits -03

(C.A.=35 + ESE=40 Total=75)

Q.1 : One long answer type question on Urdu tanqeed nigar

with Internal Option **10 marks**

Q.2 : One long answer type question on maghribi naqqad

with Internal Option **10 marks**

Q.3 : One long answer type question on:

Urdu tanqeed nigar / maghribi naqqad **10 marks**

Q.4 : Write short notes on (Any two out of four):

from any topic of syllabus **10 Marks**

Total ESE = 40 Marks

***C.A.(Continuous Assessment) = 35 Marks**

Total = 75 Marks

**SWAMI RAMANAND TEERTH
MARATHWADA UNIVERSITY, NANDED**

سوامی رمانند تیرتھ مراٹھواڑہ یونیورسٹی، نانڈیڈ

**Books Recommended for
B.A (THIRD YEAR)
Paper :DGE-URD-II
Adabi Tanqeed
Semester VI**

- | | |
|--|--|
| 1) Urdu Shora ke Tazkere Dr. Hanif Naqvi | ۱) اردو شعرا کے تذکرے۔ ڈاکٹر حنیف نقوی |
| 2) Aab-e-Hayat Md. Hussain Azad | ۲) آبِ حیات۔۔۔ محمد حسین آزاد |
| 3) Muqaddima-e- shair-o-shairi Altaf Hussain Hali | ۳) مقدمہ شعر و شاعری۔ الطاف حسین حالی |
| 4) Shairul Ajam Shibli Nomani | ۴) شعرا العجم۔۔۔ شبلی نعمانی |
| 5) Urdu Tanqeed per Ek Nazar Kaleemuddin Ahmed | ۵) اردو تنقید پر ایک نظر۔ کلیم الدین احمد |
| 6) Urdu Shairi per Ek Nazar Kaleemuddin Ahmed | ۶) اردو شاعری پر ایک نظر۔ کلیم الدین احمد |
| 7) Tanqeed Kya Hai... A.A. Suroor | ۷) تنقید کیا ہے؟۔۔۔ آل احمد سرور |
| 8) Urdu Tanqeed ka Irteqa... Dr. Ibadat Barelvi | ۸) اردو تنقید کا ارتقا۔ عبادت بریلوی |
| 9) Urdu Tanqeed ke Tareeqe... Masihu-z-zama | ۹) اردو تنقید کی تاریخ۔ مسیح الزماں |
| 10) Fan-e-Tanqeed aur Tanqeed Nigari ...Noorul-Hasan Naqvi | ۱۰) فنِ تنقید اور اردو تنقید نگاری۔ نور الحسن نقوی |
| 11) Tanqeed aur Ehtesaab... Vazir Aagha | ۱۱) تنقید اور احتساب۔ وزیر آغا |
| 12) Usool-e-Inteqadiyaat Adabiyat... Abid Ali Abid | ۱۲) اصول انتقادیات ادبیات۔ عابد علی عابد |
| 13) Classici Maghribi Tanqeed.. Dr. Md. Yaseen | ۱۳) کلاسیکی مغربی تنقید۔ ایم۔ یاسین |
| 14) Arastu se Eliot tak: Jameel jalibi | ۱۴) ارسطو سے ایلیٹ تک،۔۔۔ جمیل جالبی |



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड— ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

Established on 17th September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



ACADEMIC (1-BOARD OF STUDIES) SECTION

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मानवविज्ञान विद्याशाखेतील पदवी
स्तरावरील द्वितीय वर्षाचे CBCS Pattern
नुसारचे अभ्यासक्रम शैक्षणिक वर्ष
२०१७-१८ पासून लागू करण्याबाबत.

परिपत्रक

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ३ मे २०१७ रोजी संपन्न झालेल्या ३८व्या मा. विद्या परिषद बैठकीतील विषय क्र.१२४/३८-२०१७ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील द्वितीय वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१७-१८ पासून लागू करण्यात येत आहेत.

- १) बी.ए./बी.कॉम./बी.एस्सी.—इंग्रजी (अनिवार्य, द्वितीय भाषा अतिरिक्त, ऐच्छिक)—द्वितीय वर्ष
- २) बी.ए.—हिंदी (ऐच्छिक)—द्वितीय वर्ष
- ३) बी.ए./बी.कॉम./बी.एस्सी.—कन्नड (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ४) बी.ए./बी.कॉम./बी.एस्सी.—मराठी (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ५) बी.ए./बी.कॉम./बी.एस्सी.—पाली (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ६) बी.ए./बी.कॉम./बी.एस्सी.—संस्कृत (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ७) बी.ए./बी.कॉम./बी.एस्सी./बी.एफ.ए./बी.एस.डब्ल्यू—उर्दू (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ८) बी.ए.—फॅशन डिझाईन—द्वितीय वर्ष
- ९) बी.ए.—अर्थशास्त्र—द्वितीय वर्ष
- १०) बी.ए.—भूगोल—द्वितीय वर्ष
- ११) बी.ए.—इतिहास—द्वितीय वर्ष
- १२) बी.ए.—मानव हक्क—द्वितीय वर्ष
- १३) बी.ए.—ग्रंथालय व माहितीशास्त्र—द्वितीय वर्ष
- १४) बी.ए.—जनसंवाद व पत्रकारिता—द्वितीय वर्ष
- १५) बी.ए.—सैनिकशास्त्र—द्वितीय वर्ष
- १६) बी.ए.—तत्त्वज्ञान—द्वितीय वर्ष
- १७) बी.ए.—राज्यशास्त्र—द्वितीय वर्ष
- १८) बी.ए.—मानसशास्त्र—द्वितीय वर्ष
- १९) बी.ए.—लोकप्रशासन—द्वितीय वर्ष
- २०) बी.ए.—समाजशास्त्र—द्वितीय वर्ष

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक—०१/परिपत्रक/पदवी—सीबीसीएस अभ्यासक्रम/
२०१६-१७/८४

दिनांक : ०७.०६.२०१७.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, यू.जी.सी. कक्ष, प्रस्तुत विद्यापीठ.

स्वाक्षरित / —

उपकुलसचिव

शैक्षणिक (१—अभ्यासमंडळ) विभाग

Swami Ramanand Teerth Marathwada University, Nanded

Choice Based Credit System (CBCS) Course Structure (New scheme)

Faculty of Arts/Science/Commerce

B.A./B.Sc./B.Com. Second Year Syllabus

Semester Pattern effective from June 2017

Subject: Kannada SL

Sr. No.	Semester		Paper No.	Name of Paper	Lectures/ week	Total No. of Lectures	CA	ESE	Total Marks	Credits
1	Sem. III	ECC Kannada SL- III	Theory – III	Kannada Second Language	3	45	00	40	40	2
			Tutorial		1	10	35	00	35	1
			Total		4	55	35	40	75	3
2	Sem. IV	ECC Kannada SL- II	Theory – IV	Kannada Second Language	3	45	00	40	40	2
			Tutorial		1	10	35	00	35	1
			Total		4	55	35	40	75	3

Swami Ramanand Teerth Marathwada University, Nanded

Choice Based Credit System (CBCS) Course Structure (New scheme)

Faculty of Arts

B. A. Second Year Syllabus

Semester Pattern effective from June 2017

Subject: Kannada (Optional)

Sr. No.	Semester		Paper No.	Name of Paper	Lectures/week	Total No. of Lectures	CA	ESE	Total Marks	Credits
1	Sem. III	ECCKNN Section A	Theory – V	Medival Kannada Literature Prose	3	45	00	50	50	2
			Tutorial		1	15	25	00	25	1
		ECCKNN Section B	Theory – VI	Karnataka Kannada Culture and Criticism	3	45	00	50	50	2
			Tutorial		1	15	25	00	25	1
				Total		8	120	50	100	150
2	Sem. IV	ECCKNN Section A	Theory - VII	Medival Kannada Literature Prose	3	45	00	50	50	2
			Tutorial		1	15	25	00	25	1
		ECCKNN Section B	Theory – VIII	Medival Kannada Literature & Composition	3	45	00	50	50	2
			Tutorial		1	15	25	00	25	1
				Total		8	120	50	100	150

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Kannada Syllabus (UG) w.e.f. June 2017

CBCS Pattern

Kannada S.L.

B.A., B.Com. & B.Sc. Second Year

Semester – III Paper No. – III

Title: Modern Kannada Literature: Prose

Credits: 03

Marks: 75

(ESE: 40 Marks CA: 35 Marks)

Periods: 55

(30 Theory + 10 MCQ)

Objectives of the Study:

- There are one text book in this paper. Detailed study of the text in necessary.
- It will nine famous modern Kannada writers.
- Kannada kuladeepakaru – By Dr. G. D. Joshi, Mumbai

Unit I – Background of Kannada kuladeepakaru – By Dr. G. D. Joshi, Mumbai. [Marks: 10]

Periods: 10

Unit II – Krushnamurti, Puranik, Chaduranga, mirchiannaray, S.pooranik, [Marks: 30]

M. Gopal Krishna Adiga, De Je gau, Basavaraj, R.C. Hiremath,

Shantadevi Malwad's literature

Periods: 35

Unit III – Continuous Assessment (CA) [Marks: 35]

Periods: 10

Note: Continuous Assessment may be done on the basis of following criteria.

- 1) Two class tests during the semester for 10 marks each. **10 x 2 = 20 marks**
- 2) One assignment during each semester for 10 marks. **10 marks**
- 3) Performance 05 Marks. **05 Marks**

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Kannada Syllabus (UG) w.e.f. June 2017

CBCS Pattern

Kannada Optional

B.A.Second Year

Semester – III Paper No. – V

Title: Medieval Kannada Literature Prose

Credits: 03

(ESE: 40 Marks CA: 35 Marks)

(30 Theory + 10 MCQ)

Marks: 75

Periods: 55

Objectives of the Study:

- There are one text book in this paper. Detailed study of the text in necessary.
- Medieval Kannada Literature.
- PrabhulingLile – By Chamarasa

Unit I – Background ofPrabhulingLile – By S.S. Basavanal.[Marks: 10]

Periods: 10

Unit II – Chamarasa, MayadeviJananaBaly, Madhukanathnapooje [Marks: 30]

Maddale, Vimale, Prabhu-Maye

Periods: 35

Unit III – Continuous Assessment (CA) [Marks: 35]

Periods: 10

Note:Continuous Assessment may be done on the basis of following criteria.

- 1) Two class tests during the semester for 10 marks each. **10 x 2 = 20 marks**
- 2) One assignment during each semester for 10 marks. **10 marks**
- 3) Performance 05 Marks. **05 Marks**

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
Kannada Syllabus (UG) w.e.f. June 2017
CBCS Pattern
Kannada Optional
B.A.Second Year
Semester – III Paper No. – VI
Title: Kannada Culture and Criticism

Credits: 03

Marks: 75

(ESE: 40 Marks CA: 35 Marks)

Periods: 55

(30 Theory + 10 MCQ)

Objectives of the Study:

- There are one text book in this paper. Detailed study of the text in necessary.
- Karnataka samnskrutiSamiksha.

Unit I – Background ofKarnataka SanskrutiSamiksha

By Dr. M. Chidanandmurti

[Marks: 10]

Periods: 10

Unit II – Kannada Culture, Kadamba, Rashtrakuta, Chalukyaa, Vijaynagararasaru [Marks: 30]

Hoyalsaru, Keladinaikaru, Mysurodiyaru of study.

Periods: 35

Unit III – Continuous Assessment (CA) [Marks: 35]

Periods: 10

Note:Continuous Assessment may be done on the basis of following criteria.

- 1) Two class tests during the semester for 10 marks each. **10 x 2 = 20 marks**
- 2) One assignment during each semester for 10 marks. **10 marks**
- 3) Performance 05 Marks. **05 Marks**

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Kannada Syllabus (UG) w.e.f. June 2017

CBCS Pattern

Kannada S.L.

B.A., B.Com. & B.Sc. Second Year

Semester – IV Paper No. – IV

Title: Modern Kannada Literature: Prose

Credits: 03

Marks: 75

(ESE: 40 Marks CA: 35 Marks)

Periods: 55

(30 Theory + 10 MCQ)

Objectives of the Study:

- There are one text book in this paper. Detailed study of the text in necessary.
- Modern Kannada Literature: Prose –Meerabai's Life Study

Unit I – Background of Modern Kannada Literature Prose in Meerabai Life Study. [Marks: 10]

- By M.G. Deshpande

Periods: 10

Unit II – SantGavayatriMeerabai, Janana, Balya, DudajiAntaranga, preetisamved[Marks: 30]

Sadhu agaman

Periods: 35

Unit III – Continuous Assessment (CA) [Marks: 35]

Periods: 10

Note:Continuous Assessment may be done on the basis of following criteria.

- 1) Two class tests during the semester for 10 marks each. **10 x 2 = 20 marks**
- 2) One assignment during each semester for 10 marks. **10 marks**
- 3) Performance 05 Marks. **05 Marks**

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Kannada Syllabus (UG) w.e.f. June 2017

CBCS Pattern

Kannada Opt.

B.A.Second Year

Semester – IV Paper No. – VII

Title: Medieval Kannada Literature: Prose

Credits: 03

Marks: 75

(ESE: 40 Marks CA: 35 Marks)

Periods: 55

(30 Theory + 10 MCQ)

Objectives of the Study:

- There are one text book in this paper. Detailed study of the text in necessary.
- Medieval Kannada Literature Prose in Sharana's
- Meaning of Sharana's Uagama Vikasa

Unit I – Background of Karnataka Sharana Kathamruta – By Dr. H. Tiperudra Swami.[Marks: 10]

Periods: 10

Unit II – Basavanna, Allam Prabhu, Akka Mahadevi, Siddharama, Channa Basavanna [Marks: 30]

Sakalesh Madarasa, Uriling Peddi,

Periods: 35

Unit III – Continuous Assessment (CA) [Marks: 35]

Periods: 10

Note: Continuous Assessment may be done on the basis of following criteria.

- 1) Two class tests during the semester for 10 marks each. **10 x 2 = 20 marks**
- 2) One assignment during each semester for 10 marks. **10 marks**
- 3) Performance 05 Marks. **05 Marks**

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Kannada Syllabus (UG) w.e.f. June 2017

CBCS Pattern

Kannada Optional

B.A.Second Year

Semester – IV Paper No. – VIII

Title: Medieval Kannada Literature & Composition

Credits: 03

Marks: 75

(ESE: 40 Marks CA: 35 Marks)

Periods: 55

(30 Theory + 10 MCQ)

Objectives of the Study:

- There are two text book in this paper. Detailed study of the text in necessary.
- Medieval Kannada Literature and Composition.

Unit I – Background of BharateshVaibhav.Aparajiteshwar& one Vayaharika Kannada

[Marks: 10]

Periods: 10

Unit II – BharateshVaibhava – By RatnakaraVarni and Vyawaharik Kannada,

- By Dr. BaswarajSabarad[Marks: 30]

Periods: 35

Unit III – Continuous Assessment (CA) [Marks: 35]

Periods: 10

Note:Continuous Assessment may be done on the basis of following criteria.

- 1) Two class tests during the semester for 10 marks each. **10 x 2 = 20 marks**
- 2) One assignment during each semester for 10 marks. **10 marks**
- 3) Performance 05 Marks. **05 Marks**

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Kannada Syllabus (UG) w.e.f. June 2017

CBCS Pattern

Kannada S.L. &Optional

B.A., B.Com. & B.Sc.Second Year (SL)

B.A.Second Year (Optional)

Semester – III&IV (Each Paper)

Distribution of Marks

30 Theory + 10 MCQ =	40
2 test 10 + 10 =	20
Assignment =	10
Performance =	05
Total =	75

Model Question Paper:

Q. I Reference to context. (one out of two)	05
Q. II Essay type questions (Internal choice)	10
Q. III Essay type questions (Internal choice)	10
Q. IV Short Nots. (one out of two)	05
Q. V Objective types of questions (MCQ)	10

Total = 40

Two test 10 + 10 **20**

1 assignment + Performance **15**

Grant Total = 75



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड— ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

Established on 17th September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



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मानवविज्ञान विद्याशाखेतील पदवी
स्तरावरील द्वितीय वर्षाचे CBCS Pattern
नुसारचे अभ्यासक्रम शैक्षणिक वर्ष
२०१७-१८ पासून लागू करण्याबाबत.

परिपत्रक

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ३ मे २०१७ रोजी संपन्न झालेल्या ३८व्या मा. विद्या परिषद बैठकीतील विषय क्र.१२४/३८-२०१७ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील द्वितीय वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१७-१८ पासून लागू करण्यात येत आहेत.

- १) बी.ए./बी.कॉम./बी.एस्सी.—इंग्रजी (अनिवार्य, द्वितीय भाषा अतिरिक्त, ऐच्छिक)—द्वितीय वर्ष
- २) बी.ए.—हिंदी (ऐच्छिक)—द्वितीय वर्ष
- ३) बी.ए./बी.कॉम./बी.एस्सी.—कन्नड (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ४) बी.ए./बी.कॉम./बी.एस्सी.—मराठी (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ५) बी.ए./बी.कॉम./बी.एस्सी.—पाली (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ६) बी.ए./बी.कॉम./बी.एस्सी.—संस्कृत (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ७) बी.ए./बी.कॉम./बी.एस्सी./बी.एफ.ए./बी.एस.डब्ल्यू—उर्दू (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ८) बी.ए.—फॅशन डिझाईन—द्वितीय वर्ष
- ९) बी.ए.—अर्थशास्त्र—द्वितीय वर्ष
- १०) बी.ए.—भूगोल—द्वितीय वर्ष
- ११) बी.ए.—इतिहास—द्वितीय वर्ष
- १२) बी.ए.—मानव हक्क—द्वितीय वर्ष
- १३) बी.ए.—ग्रंथालय व माहितीशास्त्र—द्वितीय वर्ष
- १४) बी.ए.—जनसंवाद व पत्रकारिता—द्वितीय वर्ष
- १५) बी.ए.—सैनिकशास्त्र—द्वितीय वर्ष
- १६) बी.ए.—तत्त्वज्ञान—द्वितीय वर्ष
- १७) बी.ए.—राज्यशास्त्र—द्वितीय वर्ष
- १८) बी.ए.—मानसशास्त्र—द्वितीय वर्ष
- १९) बी.ए.—लोकप्रशासन—द्वितीय वर्ष
- २०) बी.ए.—समाजशास्त्र—द्वितीय वर्ष

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक—०१/परिपत्रक/पदवी—सीबीसीएस अभ्यासक्रम/
२०१६-१७/८४

दिनांक : ०७.०६.२०१७.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, यू.जी.सी. कक्ष, प्रस्तुत विद्यापीठ.

स्वाक्षरित / —

उपकुलसचिव

शैक्षणिक (१—अभ्यासमंडळ) विभाग



**SWAMI RAMANAND TEERTH
MARATHWADA UNIVERSITY, NANDED**

**SYLLABUS
ECONOMICS**

Semester Pattern

(Choice Based Credit System)

B.A. Second Year

(With effect from 2017-18)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Choice Based Credit System (CBCS) Course Structure

Faculty of Social Science

B.A. Second Year Syllabus

Semester Pattern effective from 2017-18

Subject: Economics

Semester	Core Course	Paper No	Name of Paper	Lectures / week	Total No. of Lectures	CA	ESE	Total Marks	Credits
Semester III	ECO	V	Macro Economics	4	55	35	40	75	3
	ECO	VI	Statistical Methods-I OR Economics of Development	4	55	35	40	75	3
	SEC-I		Cashless Transactions	3	45	25	25	50	2
	Total			11	155	95	105	200	8
Semester IV	ECO	VII	Banking	4	55	35	40	75	3
	ECO	VIII	Statistical Methods-II OR Development and Environmental Economics	4	55	35	40	75	3
	SEC-II		Data Collection	3	45	25	25	50	2
	Total			11	155	95	105	200	8
Grand Total (Sem. III & IV)				22	310	190	210	400	16

SEC = Skill Enhancement Course

Swami Ramanand Teerth Marathwada University, Nanded
CBCS - Paper Pattern in the Subject of Economics

B.A. Second Year

(Effective from 2017-2018)

Semester-III

Paper No	Title of the Paper	Continuous Assessment (C.A.)	End of Semester Examination (E.S.E.)
V	Macro Economics	35	40
VI	Statistical Methods-I OR Economics of Development	35	40
SEC-I	Cashless Transaction	25	25

Semester - IV

Paper No	Title of the Paper	Continuous Assessment (C. A.)	End of Semester Examination (E.S.E.)
VII	Banking	35	40
VIII	Statistical Methods-II OR Development and Environmental Economics	35	40
SEC-II	Data Collection	25	25

Core Course:

1) **Continuous Assessment (C. A.):** 35 Marks (Two class test each for 10 marks + one home assignment for 15 marks)

2) **End of Semester Examination (E.S.E.):** 40 Marks

SEC: Skill Enhancement Course

1) **Continuous Assessment (C. A.):** 25 Marks (To complete any five Skill Development Activities from the prescribed syllabus, each activity for 05 marks)

2) **End of Semester Examination (E.S.E.):** 25Marks.

**End of Semester Examination (ESE)
Question Paper Pattern
With Effect from 2017-2018**

A) Core Course (CC):

- | | |
|---|----------|
| * MCQ (Multiple Choice Questions)
10 question,each for one mark. | 10 Marks |
| Q. 1 Descriptive question
OR
Descriptive question | 10 Marks |
| Q. 2 Descriptive question
OR
Descriptive question | 10 Marks |
| Q. 3 Write short noteson (any two).
i)
ii)
iii)
iv) | 10 Marks |
-

B) Skill Enhancement Course (SEC):

- | | |
|---|----------|
| Q. 1 Descriptive question
OR
Descriptive question | 10 Marks |
| Q. 2 Descriptive question
OR
Descriptive question | 10 Marks |
| Q. 3 Write short notes on (any one).
i)
ii)
iii) | 05 Marks |

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
ECONOMICS

(With Effect from 2017-18)

B.A. Second Year

SEMESTER - III

Macro Economics (Paper-V)

Credits: 03

Periods: 55

Marks: 75

Course Rationale:

The present paper discusses national income and elaborates its meaning, importance and features. It also introduces the concepts like GNP, NNP, GDP, Personal Income, Disposable Income and Per Capita Income. Further, it numerates the measuring methods of national income and difficulties in it.

It studies theory of money, illustrating its definitions, functions and importance as well as value and measurement. Not only it focuses on quantitative theories of money of Fisher and Cambridge approach but also covers business cycle, its meaning, characters and phases; including Keynesian theory.

The paper includes the classical theories of employment of Say's Law of market and Keynesian theory of income and employment. It is extended to the concept of consumption and other elements.

Course Content	Periods
Unit - I National Income:	15
1. Meaning, Features and Importance of National Income	
2. Concepts of GNP, NNP, GDP, Personal Income, Disposable Income, Per Capita Income	
3. Measuring Methods of National Income; Difficulties in Measurement of National Income	
Unit - II Theory of Money and Business Cycle:	20
1. Definitions, Functions and Importance of Money.	
2. Value of Money and its Measurement.	
3. Quantitative Theory of Money - Fisher's Transaction Approach, Cambridge Cash Balance Approach.	
4. Business Cycle - Meaning, Characteristics and Phases of Business Cycle, Keynesian Theory of Business Cycle.	
Unit - III Theory of Income and Employment	20
1. The Classical Theory of Employment - Say's Law of Market, Keynesian Theory of Income and Employment.	
2. The concept of Consumption Function, Investment Function, Marginal Efficiency of Capital, Multipliers and Acceleration.	

Recommended Books:

1. Hanson, A.H. (1953), A Guide to Keynes, McGraw Hill, New York.
2. Dillard, D. (1960), The Economics of John Maynard Keynes; Cross by lock wood and sons, London.
3. Ackley, G (1976), Macro Economics: Theory and Policy, Macmillan Publishing Company, New York.
4. Gupta, S.B. (1994) Monetary Economics, S. Chand and Co. Delhi.
5. Shapiro, E. (1996), Macro Economics Analysis, Galgotia Publications. New Delhi.
6. Lewis, M.K. and P.D. Mizan (2002), Monetary Economics, Oxford University Press, New Delhi.
7. Anuja H.L. (2002), Macro Economics, Theory and Policy; S. Chand and Co. Ltd., New Delhi.
8. Jhingan M.L. (2009), Macro Economic Theory, Vrinda Publications (P) Ltd, Delhi.
9. N. Gregory Mankiw (2010), Macro Economics, Cengage Learning India Private Limited, New Delhi, 7th Edition.
10. Dornbusch, Fischer and Startz (2010) Macro Economics, McGraw Hill, 11th Edition.
11. Mithani, D.M. (2016), Macro Economics, Himalaya Publishing House Pvt.Ltd, Mumbai.
12. जेठके माधव (1987), स्थूल अर्थशास्त्र, पिपळापुरे अँड कं. पब्लिशर्स, नागपूर.
13. तुपेसु.दा, पेडगावकर श्रीराम (1992), स्थूल अर्थशास्त्र, सविता प्रकाशन, औरंगाबाद.
14. सोळुंके आर.एस., पाटील के.के. (1994), स्थूल अर्थशास्त्र, गोमटेश प्रकाशन, परभणी
15. ठक्कर के.एच. (1998), स्थूल अर्थशास्त्र, फडके प्रकाशन, कोल्हापूर.
16. डॉ.तिकटे, मुक्टे (2011), स्थूल अर्थशास्त्र, अरुणा प्रकाशन, लातूर
17. डॉ. उकरा (2014), स्थूल अर्थशास्त्र, प्रवर्तन प्रकाशन, लातूर
18. जाधवर आर.डी. (2014), समग्रलक्षी प्रकाशन, अथर्व प्रकाशन, पुणे.
19. वाणी नीता (2016), स्थूल अर्थशास्त्र, प्रशांत पब्लिकेशन, जळगाव.
20. खटाळ बी.जी. (2016), स्थूल अर्थशास्त्र, प्रशांत पब्लिकेशन, जळगाव.
21. काकडे जे.एम. (2016), स्थूल अर्थशास्त्र, साईनाथ प्रकाशन, नागपूर
22. डॉ. वेलकर, डॉ.दामजी, स्थूल अर्थशास्त्र व सार्वजनिक वित्त, विद्या बुक्स पब्लिशर्स, औरंगाबाद.
23. डॉ. वेलकर, डॉ. दामजी, स्थूल अर्थशास्त्र व सार्वजनिक वित्त, विद्या बुक्स पब्लिशर्स, औरंगाबाद.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
ECONOMICS

(With Effect from 2017-18)

B.A. Second Year

SEMESTER - III

Statistical Methods-I (Paper-VI)

Credits: 03

Periods: 55

Marks: 75

Course Rationale:

The present paper is designed to expose the students to the basic statistical methods of economics. The emphasis is on definition, function, importance and limitations. The paper illustrates the role of Data collection and frequency distribution. It will clarify the difference between primary and secondary data. The course also looks at the measures of central tendency.

Course Content	Periods
Unit-I Introduction: Definition, Scope, Functions of Statistics. Importance and Limitations of Statistics.	15
Unit-II Data Collection and Frequency Distribution Primary data: Methods of Collecting Primary data. Secondary data: Sources of Secondary data Classification, Seriation and Tabulation and Presentation of data.	20
Unit-III Measures of Central Tendency Mean, Median, Mode, Quartiles, Deciles and Percentiles.	20

Recommended Books:

1. Croxton, F.E., Cowden D.J. and Kleins (1973), Applied General Statistics, Prentice Hall, New Delhi.
2. Allen, R.G.D. (1974), Mathematical Analysis for Economists, MacMillan Press, London.
3. Speigal, M.R. (1992), Theory and problems of statistics, McGraw Hill Book, London
4. Gupta, S.C. and Kapoor V.K. (1993), Fundamentals and Applied Statistics, Chand and Sons, New Delhi.
5. देशमुख राम (2005), मुलभूत सांख्यिकी, विद्या प्रकाशन, नागपूर.
6. महाजन वायआर. (2005), सांख्यिकी, पिंपळापूरे अँड कं. पब्लिशर्स, नागपूर.
7. खटाळ बी.जी. (2012), सांख्यिकीय पध्दती, प्रशांत पब्लिकेशन्स, जळगाव
8. कोलते एस.एम. (2013), सांख्यिकी तत्व आणि व्यवहार, पिंपळापूरे अँड कं.पब्लिशर्स, नागपूर
9. शबनम (2016), संख्यात्मकतंत्रे व संशोधन पध्दती, विद्या बुक्स औरंगाबाद.
10. कदमविश्वास (2014), सांख्यिकीपध्दती, कैलाशपब्लिकेशन्स, औरंगाबाद.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
ECONOMICS

(With Effective from 2017-18)

B.A. Second Year

SEMESTER - III

Economics of Development(Paper-VI)

Credits: 03

Periods: 55

Marks: 75

Course Rationale:

This paper deals with the concepts of Economic Development and Economic Growth explaining the differences between them. It also throws light on the indicators of Economic Growth and measurements of Economic Developments.

This paper enables students to acquaint not only with classical theories but also introduces them with other theories of Economic Development. Furthermore, it highlights the factors in Economic Development process such as, Natural Resources, Population, Saving, Capital formation and so on.

Course Content

Periods

Unit-I Economic Development and Growth:

15

1. Concept of Economic Development - Meaning and Measurement of Economic Development
2. Concept of Economic Growth - Indicators of Economic Growth.
3. Difference between Economic Development and Economic Growth.

Unit-II Theories of Economic Development:

20

1. Classical Theories - Adam Smith, Ricardo and Malthus
2. Karl Marx's Theory of Economic Development.
3. Rostow's Stages of Economic Growth
4. Lewis's theory of Unlimited Supply of Labour.

Unit-III Factors in the Development Process:

20

1. Natural Resources - Renewable and Non-renewable
2. Population - Theory of Optimum Population
3. Saving - The Role of Savings in Economic Development
4. Capital Formation - Reasons of Low Rate of Capital Formation in Underdeveloped Country.

Recommended Books:

1. Schumpeter J.A. (1934), The Theory of Economic Development, Harvard University Press Cambridge.
2. Lewis W. Arthur (1954), Economic Development with Unlimited Supply of Labour, the Manchester School.
3. Robinson Joan (1957), An Essay on Marxian Economics, Macmillan and Co. London.
4. Rostow W.W. (1962), The stages of Economic Growth, Cambridge University Press, London.
5. Nurkse Ragnar (1973), Problems of Capital Formation in Underdevelopment countries, Oxford University Press, Delhi.
6. Jhingan M.L. (1973), the Economic of Development and Planning, Vikas Publishing House, New Delhi.
7. Misra S.K., Puri V.K. (XIV Edition 2012), Economics of Development and Planning, Himalaya Publishing House, New Delhi.
8. गायकवाड ज.पा., अशोक बोरीकर (1976), आर्थिक विकास आणि आर्थिक नियोजन, विद्या प्रकाशन, नागपूर
9. पत्की अ.द., साबळे म.ना. (1991), विकासाचे अर्थशास्त्र आणि नियोजन, विद्या बुक्स पब्लिशर्स, औरंगाबाद.
10. कुरुलकर र.पु., अरविंद एकताटे (1991), विकासाचे अर्थशास्त्र, विद्या प्रकाशन, नागपूर.
11. कुमानाचे पी.आर. (1992), विकासाचे अर्थशास्त्र आणि नियोजन, कैलाश पब्लिकेशन, औरंगाबाद.
12. पत्की अशोक (1998), विकासाचे अर्थशास्त्र व नियोजन, विद्या बुक्स पब्लिशर्स, औरंगाबाद.
13. भोसले, काटे (1998), विकासाचे अर्थशास्त्र आणि नियोजन, फडके प्रकाशन, कोल्हापूर.
14. भमरे अलका (2004), विकास व पर्यावरणाचे अर्थशास्त्र, सुयश प्रकाशन, पुणे.
15. फडणविस मृणालिनी (2006), विकासाचे अर्थशास्त्र व सिध्दांत, विद्या प्रकाशन, नागपूर.
16. पाटील जे.एफ. संपा. (2007), वृद्धी व विकासाचे अर्थशास्त्र, फडके प्रकाशन, कोल्हापूर.
17. देशपांडेश्रीधर, देशपांडे विनायक (2010), भारतीय अर्थव्यवस्था, हिमालया पब्लिशिंग हाऊस, गिरगाव, मुंबई.
18. इंगळे बी.डी. (2010), विकास आणि पर्यावरणीय अर्थशास्त्र, अरुणा प्रकाशन, लातूर
19. पुरोहित वसुधा (2014), विकासाचे अर्थशास्त्र, विद्या बुक्स पब्लिशर्स, औरंगाबाद
20. कदम विश्वास, गावंडे गणेश (2014), विकासाचे अर्थशास्त्र, कैलाश पब्लिकेशन, औरंगाबाद
21. इंगळेबी.डी. (2015), विकासाचे अर्थशास्त्र व नियोजन, अरुणा प्रकाशन, लातूर
22. वावरे अनिलकुमार, लोंढे मारुती (2015), विकास व नियोजनाचे अर्थशास्त्र, एज्युकेशन, औरंगाबाद
23. भार एस.के. (2015), आर्थिक विकास आणि नियोजन, प्रशांत पब्लिकेशन, जळगाव
24. 'कोकस, -वि- 2015] यकाI [; k vlf.k vlfkld fodkl] fo |korrh i ddk' ku] ykrij

ECONOMICS

(With Effect from 2017-18)

B.A. Second Year

SEMESTER - III

Skill Enhancement Course

Cashless Transaction (SEC-I)

Credits: 02

Periods: 45

Marks: 50

CASHLESS TRANSACTIONS

Course Outline:

An introduction to Money and Banking and the role of banks in the economy, not only the students learn about traditional modes of payments but they are also able to know about the modern modes of payments which help in making cashless economy.

Aims and objectives of course:

The specific aims of this course are :

- ✓ To enable the students to understand various aspects of Cashless Transactions.
- ✓ To provide basic knowledge of Money and Banking systems.
- ✓ To identify key issues and problems in cash economy.
- ✓ To introduce the key economic concepts, required to analyse cashless transactions.
- ✓ To illustrate how the new modes of payments (cashless) can be made easy in cashless transaction.

Learning outcomes of course:

completed the essential reading and activities students should:

- ✓ Discuss Banking systems in existence and how they are structured
- ✓ Explain the relative importance of new modes of payments (cashless) in transactions.
- ✓ Discuss the main types of cashless instruments and the main techniques employed by banks.

	Course Content	Periods
Unit -I	Nature and Significance of Money: Money : Definition, Barter System, Evolution of Money, Characteristics and Functions of Money	08
Unit: II	Evolution of Bank: Bank: Definition, Evolution of Banking in India, Classification of Banks, Formalities and Procedures of Opening Accounts, Operation of Bank Accounts.	08
Unit: III	Cashless Economy: Meaning of Cashless Economy, Types and Modes of Payment of Cashless Economy, Advantages and Disadvantages of Cashless Economy, Challenges in Transforming Cashless India.	08
	SKILL DEVELOPMENT ACTIVITIES (Any five of the following) 1. Prepare a chart showing the functions of Money. 2. Prepare a chart showing the structure of any one of the new mode of payment like Paytm, UPI etc. 3. Prepare a specimen of any two new modes of payments. 4. Visit a bank and collect various slips, application etc. and fill it. 5. Visit a bank and collect information about the various Instruments of Cashless. 6. Find out the recent trends in use of cashless instruments and make a class room presentation. 7. Analyze the working of any cashless instrument. 8. Draft a report about Cashless experience in the Indian context. 9. Conduct a survey and enlist the retail shops and nature of transactions carried on in your locality with cashless. 10. Visit the retail shops in busy place of your locality and report the factors influencing the Cashless transaction.	26
		50

Recommended Books:

1. The Economics of Money, Banking, and Financial Markets (Addison-Wesley Series in Economics) by Frederic S. Mishkin, Seventh Edition, Published July 22nd 2005
2. Money And Banking by Dudley G. Lockett Paperback, 3rd Edition, Published 1984 by McGraw-Hill
3. The Theory and History of Banking: Charles Franklin Dunbar, Oliver Mitchell Wentworth Sprague, Henry Parker Willis Paperback, Large Print, Published Nabu Press.
4. Modern Banking In India: K.N. Subrahmanya, Deep & Deep Publications, New Delhi
Bank Finance For Rural Development: L K Naidu, Ashish publishing house. Delhi.
5. Money and Banking: A.A.Walters, Harmondsworth, Penguin Education,
6. Money, Banking and International Trade: K.P.M.Sundharam, Sultan Chand & Sons, New Delhi.
7. Fundamentals of Banking: Rita S.Swami, Sheth Publishers, Mumbai.
8. Money, Banking, International Trade and Public Finance: D. M. Mithani, Himalaya Publishing House, Mumbai.
9. Reform of The Indian Banking System: S.L.N. Simha, Orient Longman Ltd, New Delhi.
10. Money banking international trade and public finance: M.L.Jhingan, Vrinda Publication, Delhi.
11. चांदूरकर, वि.वु. : मुद्राशास्त्र व मौद्रिक मीमांसा, विद्या प्रकाशन, नागपूर.
12. मुद्रा सिध्दांत आणि व्यवहार, विद्या प्रकाशन, नागपूर.
13. खोलकुटे, आ.द. : मुद्रा उत्पन्न आणि रोजगार, आर्थिक आणि वाणिज्य प्रकाशन, नागपूर.
14. साबळे, ए.बी. व सहस्त्रबुध्दे, एस.बी. : मुद्रा आय राजस्व आणि आंतरराष्ट्रीय व्यापार, मंगेश प्रकाशन, नागपूर.
15. मेहता, पुरुषोत्तम : अभिनव मुद्राशास्त्र, जीवन प्रकाशन, नागपूर.
16. महाजन, मुकुंद : बँक व्यवसाय व वित्त पुरवठा, निराली प्रकाशन, पुणे.
17. कानेटकर, मेधा : पैशाचे अर्थशास्त्र, श्री साईनाथ प्रकाशन, नागपूर.
18. बोधनकर, सुधीर, कानेटकर, मेधा : पैसा, अधिकोषण, राजस्व आणि आंतरराष्ट्रीय अर्थशास्त्र, श्री साईनाथ प्रकाशन, नागपूर.
19. रायखेलकर, ए.आर., दामजी, बी.एच. : मुद्रा-अधिकोषण आणि सार्वजनिक वित्त, विद्या बुक्स पब्लिशर्स, औरंगाबाद.
20. बैरागी, के.पी., देसाई, रमेश : बँक व्यवसायाची मूलतत्त्वे, अथर्व प्रकाशन, पुणे.
21. कोलते एस.एम. : भारतीय बँकिंग प्रणाली, प्रशांत पब्लिकेशन्स, जळगाव.
22. मंगाधर कायंदे, पैसा, बँकिंग आणि राजस्व, चैतन्य पब्लिकेशन्स, नाशिक.
23. लांजेकर जगदीश : बँक व्यवसाय व वित्तपुरवठा, डायमंड पब्लिकेशन, पुणे.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
ECONOMICS

(With Effectiveness from 2017-18)

B.A. Second Year
SEMESTER - IV
Banking (Paper-VII)

Credits: 03

Periods: 55

Marks: 75

Course Rationale:

This paper aims to illustrate the concept of Bank in detail emphasising meaning, function and evolution of banking system in India. It throws light on commercial banking and credit creation and their progress after nationalization of banking.

This paper also encompasses the definition, function and development of central bank. Further, the paper explores the pivotal financial institutions such as IDBI, NABARD, ICICI, EXIM etc. and their function and development. The paper also intends to make students aware of the current trends and reformations in banking services, for example E-banking, ATMs, Debit Cards, Educational Loan, Core Banking and other electronic services.

Course Content

Periods

Unit - I Commercial Bank

15

Meaning and Functions of Bank, Evolution of Banking System in India. Commercial Banking and Credit Creation. Critical appraisal and Progress of Commercial Banking after Nationalization

Unit - II Central Bank

20

Definition, Functions and Development of Central Bank, Credit Control - Meaning and Types.

Unit - III Financial Institutions & Concepts

20

Regional Rural Banks, Functions and Development of IDBI, NABARD, ICICI, EXIM Bank.

Recent reforms in Banking sector of India, Current trends in Banking services – e-banking, ATM, Debit Card, Credit Card, Core Banking, Education Loan, Types of Electronic Clearing Services

Recommended Books:

1. ZhinganM.L.: Money, Banking and International Trade.
2. DesaiVasant : Central Banking and Economic Development.
3. Panandikar S.G.,Mithal D.M.: Banking in India.
4. Shekhar&Shekhar, Banking Theory and Practice, Vikas Publishing House, New Delhi.
5. Hatler, Banks Investment and Funds Management.
6. Mahajan, Mukund (2000), Indian Banking System, NiraliPrakashan, Pune.
7. Khan, M.Y. (2011), Indian Financial System, Tata McGraw Hill, 7th Edition.
8. Deshmukh, D.N.(2014), Indian Banking System, ChandralokPrakashan, Kanpur
9. Bhole, L.M., Mahukud (2011), Financial Institutions and Markets, Tata McGraw Hill, 5th Edition.
10. Mishkin, F.S., Eakings, S.G. (2009), Financial Markets and Institutions, Pearson Education, 6th Edition.
11. Various Latest Issues of RBI Bulletins Annual Reports, Reports on Currency and Finance & Reports of the Working Group.
12. पाटील के.के.,सॉडगे एम.एन. (1991), एमपीएससी, बैंकिंग, कैलाश पब्लिकेशन, औरंगाबाद.
13. जोशी, डांगे (1995), बैंकिंग, फडके प्रकाशन, कोल्हापूर.
14. बोधनकर सुधीर, कानेटकर मेधा (2000), भारतीय बैंकिंग प्रणाली, श्री साईनाथ प्रकाशन, नागपूर.
15. खंदारे विलास (2004), पैसा, बैंकिंग आणि वित्त, प्रविण प्रकाशन, देवगाव (रं.) जि.औरंगाबाद.
16. रायखेलकर ए.आर., मॅथरु (2004), अधिकोषण आणि सार्वजनिक वित्त, विद्या बुक्स पब्लिशर्स, औरंगाबाद.
17. पुरोहित वसुधा, देव मंदाकिनी (2005), अधिकोषण आणि सार्वजनिक वित्त, श्री विद्या प्रकाशन, पुणे.
18. बैरागी, के.पी. (2014), भारतीय बँक व्यवस्था, अथर्व प्रकाशन, पुणे.
19. सावळे एकनाथ, पाटील लक्ष्मण (2015), बैंकिंग, अरुणा प्रकाशन, लातूर

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
ECONOMICS**

(With Effective from 2017-18)

B.A. Second Year

SEMESTER - IV

Statistical Methods-II(Paper-VIII)

Credits: 03

Periods: 55

Marks 75

Course Rationale:

This paper is the second part of statistical methods for economics. The paper examines the measures of dispersion in terms of range, quartile deviation and co-efficient. It then studies correlation and time series, interpreting meaning, types and importance, applying Karl Pearson's method. This is followed by an introduction of index number illustrating the importance of Laspeyer, Passche and Fisher's methods.

Course Content

Periods

Unit-I Measures of dispersion:

15

Range, Quartile Deviation, Standard Deviation and its Co-efficient.

Unit - II Correlation and Time Series Analysis

20

Meaning and types of Correlation, Importance of correlation - Simple Correlation-Karl Pearson's Method

Meaning and Components of Time Series

Unit-III Index Number:

20

Meaning and Definition. Methods of Construction of Index Number, Importance of Index Number, Laspeyer, Paasche and Fisher's Methods.

Recommended Books:

1. Croxton, F.E. Cowden D.J. and Kleins (1973), Applied general statistics, prentice Hall, New Delhi.
2. Allen, R.G.D. (1974), Mathematical Analysis for Economists, Macmillan Press, London.
3. Speigal, M.R. (1992), Theory and problems of statistics, McGraw Hill Book, London.
4. Gupta, S.C. and Kapoor V.K. (1993), Fundamentals and applied statistics, S. Chand & Sons; New Delhi.
5. M.C. Sukla, S.S. Gulshan, Statistics, S.Chand & Company Ltd., New Delhi.
6. कोलते एस.एम. (2013), सांख्यिकी तत्व आणि व्यवहार, पिंपळापूरे अँड कं. नागपूर
7. शबनम (2016), संख्यात्मकतंत्रे व संशोधन पध्दती, विद्या बुक्स औरंगाबाद.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

ECONOMICS

(With Effect from 2017-18)

B.A. Second Year

SEMESTER - IV

Development and Environmental Economics (Paper-VIII)

Credits: 03

Periods: 55

Marks: 75

Course Rationale:

This paper glances rapidly on the term Economic Development only to understand the concept of Less Development Countries and their characteristics. It also gives emphasis on factors promoting to and obstacles of Economic Development.

This paper enables students to comprehend the role of agriculture and industrialization in Economic Development. Not only it illuminates the importance of infrastructure in Economic Development, but emphasises the importance of agricultural growth in globalization in terms of Economic Development. At times, it also brings in light the environmental concepts related with Economic Development such as pollution, sustainable development etc.

Course Content

Periods

Unit-I Economic Development: an overview

15

1. Concept of less developed countries.Characteristics of Less developed countries (LDC's)
2. Factors promoting economic development
3. Obstacles to economic development.

Unit-II Sectoral view of Development

20

1. Role of Agriculture in Economic Development
2. Role of Industrialization in Economic Development.
3. Globalization and Agricultural growth.
4. Infrastructure and its importance in Economic Development

Unit-III Environment and Economic Development

20

1. Meaning of Environment, Importance of Environment in Economic Development
2. Meaning of Pollution, types of Pollution - Causes and E.ffects
3. Control of Environmental Pollution.
4. Concept of Sustainable Development, Indicators of Sustainable Development.

Recommended Books:

1. Dixon, John A. and Lovise A. Fallon (1989). "The Concept of Sustainability: Origins, Extensions and Peacefulness for Policy, Society and Natural Resources 2(2): 73-74.
2. Goodland R., Daly, H.E. and E.L. Serafy, S. (eds.) (1991). Environmentally Sustainable Economic Development: Building on Brundtland, Washington, D.C., The World Bank, Environment Deptt. p.85.
3. Barry, Dalal - Clation(1992). Modified EIA and Indicators of Sustainability: First Step Towards Sustainability Analyst; World Bank Conference on Environment and Sustainable Development: Washington, D.C.
4. Barthwal, R.R. and Shukla, J.B. (1993). Technical Educations, Sustainable Development and the Environment : Proceedings of the National Seminar of the Indian Society for Technical Education, IIT, Kanpur, January 1993, Published by Allied Publications, New Delhi, 1994.
5. Barthwal, R.R. (1996). Environmentally Sustainable Development: The Conceptual Framework, Paper presented in the Seventy - ninth Annual Conference of Indian Economic Association Volume.
6. Furtado, Josel dos R. and Tamara Belt with RamchandraJammi (2000) : Economic Development and Environmental, Sustainability, WBI Learning Series, World Bank, Washington, D.C.
7. JGIDR Series (2000). Environment, Economics and Development, Environmental Governance - 5 Mumbai.
8. Kumar Ratnesh (2006), "Environmental Economics Theory & Practices" Deep & Deep Publication Pvt. Ltd. - F - 159, Rajouri Garden New Delhi - 110027.
9. R.K. Lekhi et.al (2008), Development and Environmental Economics, Kalyani Publishers, Ludhiana.
10. Charles, Kolstad (2010), Intermediate Environmental Economics, Oxford University Press, 2nd Edition.
11. खंदारे विलास (2005), विकास आणि पर्यावरणशास्त्र अर्थशास्त्र, कैलाश पब्लिकेशन, औरंगाबाद.
12. व. वि. श. (2006), पर्यावरणशास्त्र, पिंपळापूर अँड कंपनी. पब्लिशर्स, नागपूर
13. इंगळे बी.डी. (2010), विकास आणि पर्यावरणशास्त्र अर्थशास्त्र, अरुणा प्रकाशन, लातूर.
14. दातीर आर.के. (2012), विकास आणि पर्यावरणाचे अर्थशास्त्र, निराली प्रकाशन, पुणे.
15. भोंग/दांगट/पाटील (2014), पर्यावरणाचे अर्थशास्त्र, सक्सेस पब्लिकेशन, पुणे.
16. कुलकर्णी/दीक्षीत/सोंडगे/डिसले (2014), पर्यावरणशास्त्र, विद्या बुक्स पब्लिशर्स, औरंगाबाद.
17. वानखेडे दत्ता (2015), शाश्वत विकास, पी.डी. पब्लिकेशन, पुणे

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
ECONOMICS

(With Effect from 2017-18)

B.A. Second Year

SEMESTER - IV

Skill Enhancement Course

Data Collection (SEC-II)

Credits: 02

Periods: 45

Marks: 50

Data Collection

<p><u>Course outline:</u> The course will be given in the form of lectures and practical work. Lectures will focus on research, especially with regard to sampling methods, data collection and data preparation. The course will focus on the practical implementation of diverse sample techniques. Students are expected to collect and classify the data.</p> <p><u>Aims and objectives of course:</u></p> <ul style="list-style-type: none">• To develop the understanding of the basic concept of research.• To develop the understanding of the basic framework of sampling and data collection..• To develop the understanding of various sampling methods and techniques.• To identify various sources of information for data collection.• To develop the understanding of the conducting survey on various issues. <p><u>Learning outcomes of course:</u> On completion of the course, the student shall be able to</p> <ul style="list-style-type: none">• Demonstrate his/her understanding of sampling methods and the ability to use collection of data• Identify the appropriate sample techniques for different kinds of research questions• Identify the appropriate source of data in relation to the collection of research data.• Able to classify and present the collected data in the form of graph, bar diagram, chart etc.	
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	Course Content	Periods
Unit: I	Introduction to Research: Meaning, Objectives, Types and Significance, Research Problem and Steps of Research.	06
Unit: II	Techniques of Sampling: Census Method; Sample Survey- Methods of Sampling.	06
Unit: III	Methods of Data Collection: Meaning- Primary and Secondary data. Sources of Primary and Secondary Data, Methods of Collecting Primary and Secondary Data. Classification and Tabulation of data. Frequency Distribution and Graphical Presentation of data.	12
	SKILL DEVELOPMENT ACTIVITIES (Any five of the following) 1. Prepare a chart showing the steps of research. 2. Prepare a chart showing the sampling technique 3. Prepare Charts showing sources of primary data. 4. Prepare a chart showing sources of secondary data. 5. Collect the data relating to households income and prepare a graph. 6. Construct a questionnaire to measure student's attitude towards the purchase of two wheelers / readymade garments etc. 7. Administer the questionnaire you have developed on selected students (sample size of 10 students) in your college. Discuss any response related to Problems you encountered. 8. Collect the data related to any schemes of your locality and present in front of the students. 9. Illustrate the various types of samples with examples. 10. Construct a questionnaire for collection of primary data on any social issue.	26
		50

Recommended Books:

1. P.H. Karmel and M. Polasek (1978), Applied Statistics for Economists, 4th edition, Pitman.
2. M.R. Spiegel (2003), Theory and Problems of Probability and Statistics (Schaum Series).
3. Cochran, William, G. (2008), Sampling Techniques, Third Edition, Wiley-India, ISBN 978 -81-265-1524-0.Reprint: 2008.
4. Bethlehem, J. (2009), Applied Survey Methods: A Statistical Perspective, Wiley.
5. Uwe Flick (2012), Introducing Research Methodology: A Beginner's Guide to Doing a Research Project, Sage Publications.
6. S.P.Gupta (2012), Statistical Methods, 42nd edition, Sultan chand and sons.
7. Ranjit Kumar (2014), Research Methodology: A Step-by-Step Guide for Beginners, 4th Edition, Sage Publications.
८. डॉ. काचोळे दा.धो. (१९९३), सामाजिक संशोधन पध्दती, कैलास पब्लिकेशन्स, औरंगाबाद.
९. गन्देवार एस.एन. (२००४), समाजशास्त्रीय संशोधन पध्दती, विद्याभारती प्रकाशन, नागपूर.
१०. देशमुख राम (२००५), मुलभूत सांख्यिकी, विद्या प्रकाशन, नागपूर.
११. कुलकर्णी, ढमढेरे (२००७), अर्थशास्त्रीय संशोधन पध्दती, डायमंड पब्लिकेशन, पुणे.
१२. कायंदे पाटील (२००९), संशोधन पध्दती, चैतन्य पब्लिकेशन्स, नाशिक.
१३. डॉ. कऱ्हाळे बी.एम.(२०११), शास्त्रीय संशोधन पध्दती, पिंपळापूरे अँड कं. पब्लिशर्स, नागपूर.
१४. पाटील वा.भा. (२०१२), संशोधन पध्दती, प्रशांत पब्लिकेशन्स, जळगाव.
१५. करे बिभीषण, (२०१५), सामाजिक संशोधनाची मूलतत्त्वे, विद्या बुक प्रकाशन, नागपूर.



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड— ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

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मानवविज्ञान विद्याशाखेतील पदवी
स्तरावरील द्वितीय वर्षाचे CBCS Pattern
नुसारचे सुधारित अभ्यासक्रम शैक्षणिक वर्ष
२०१८-१९ पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक १४ जून २०१८ रोजी संपन्न झालेल्या ४१व्या मा. विद्या परिषद बैठकीतील विषय क्र.११/४१-२०१८ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील द्वितीय वर्षाचा खालील विषयांचा C.B.C.S. (Choice Based Credit System) Pattern नुसारचा सुधारित अभ्यासक्रम शैक्षणिक वर्ष २०१८-१९ पासून लागू करण्यात येत आहे.

१) बी.ए. — द्वितीय वर्ष — इंग्रजी

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक—०१/परिपत्रक/पदवी—सीबीसीएस अभ्यासक्रम/

२०१८-१९/५२८

दिनांक : १२.०७.२०१८.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.



स्वाक्षरित/—

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग

Syllabus for Second Year (Semester + CBCS Pattern Structure)
Skill Enhancement Course – (SEC)

Semester	Paper/ Course Code	Name of the Course	Lectures per Week	Total Periods	Internal Evaluation (C.A.)	Marks of the Semester (E.S.E.)	Total Marks	Credits
III	SEC -ENG - I	Skills for Employability -I	03	45	25	25	50	2
IV	SEC -ENG - II	Skills for Employability -II	03	45	25	25	50	2

Syllabus for Skill Enhancement Course (SEC) - Second Year
Title of the Course-Skills for Employability-I
(Course/Paper Code-SEC-ENG-I)
Semester-III

Credits: 02 Marks: 50 No of Classes: 45 (ESE – 25 Marks) (CA- 25 Marks)

Salient Features of the Course:

1. The course enables the student to acquire employability skills in a systematic way
2. The practice of participative learning has a scope to be implemented

Utility of the Course:

1. Developing a course that meets requirements of the 21st century learners
2. Building vocabulary comprising spelling and pronunciation in English
3. Developing dialogues for conversation skills
4. Developing activities for written communication
5. Developing strategies for professional skills and soft skills.

Objectives of the Course:

1. To provide sound knowledge and training of Employability Skills to learners
2. To expose learners to a variety of self-instructional, learner-friendly modes of communication for improving their employability
3. To expose learners to a variety of sub-skills in order to hone their skills as required in the present job market
4. To develop a work culture among learners for upcoming job opportunities

Prerequisites for the Course:

1. Handouts, course material and activity sheets
2. Progress chart of learners for evaluation of their performance.
3. The following facilities would be of additional help:

LCD projector and screen, computer system with a DVD ROM and printer, Public addressing system with a cordless microphone, Power point presentations on all the modules

UNIT: I – Preparing for Employment [Marks 25] Periods: 25

1. Self-discovery and Career Planning
2. English – the language for global communication
3. Adapting to the work culture:
 - a) Govt./Private/Corporate culture
 - b) Opportunities in Govt./Private/Corporate sectors
 - c) Manners and etiquettes to be adopted in Govt./Private/Corporate sectors
4. Vocabulary Building for Career readiness

UNIT II-- Continuous Assessment (CA) [Marks: 25] Periods 20

Note: Continuous Assessment may be done on the basis of following criteria

- 1) Interview, Seminar, Topic Presentation during the semester for 05 Marks each. [15 Marks]
- 2) One (1) Assignment /Project work for 10 Marks.

(Continuous assessment can be carried on the basis of text-book prescribed for the syllabus-*An Introduction to the Skills for Employability*).

Syllabus for Skill Enhancement Course (SEC) - Second Year

Title of the course-Skills for Employability-II

(Course/Paper Code-SEC-ENG-I)

Semester-IV

Credits: 02 (Marks: 50) Periods: 45 (ESE – 25 Marks) (CA- 25 Marks)

Salient Features of the Course:

1. The course enables the student to acquire employability skills in a systematic way
2. The practice of participative learning has a scope to be implemented

Utility of the Course:

1. Developing a course that meets requirements of the 21st century learners
2. Building vocabulary comprising spelling and pronunciation in English
3. Developing dialogues for conversation skills
4. Developing activities for written communication
5. Developing strategies for professional skills and soft skills.

Objectives of the Course:

1. To provide sound knowledge and training of Employability Skills to learners
2. To expose learners to a variety of self-instructional, learner-friendly modes of communication for improving their employability
3. To expose learners to a variety of sub-skills in order to hone their skills as required in the present job market
4. To develop a work culture among learners for upcoming job opportunities

Prerequisites for the Course:

1. Handouts, course material and activity sheets
2. Progress chart of learners for evaluation of their performance.
3. The following facilities would be of additional help.

LCD projector and screen, computer system with a DVD ROM and printer, Public addressing system with a cordless microphone, Power point presentations on all the modules

UNIT: I -- The Art of Communication [25Marks] Periods: 25

1. Introducing oneself
2. Group dynamics
3. Conversation skills:
 - a) Questioning skills
 - b) Telephone etiquettes
 - c) Interview techniques
4. Verbal and non-verbal communication

UNIT: II-- Continuous Assessment (CA) [Marks: 25] Periods 20

Note: Continuous Assessment may be done on the basis of following criteria

1. Interview/Seminar /Topic Presentation during the semester for 05 Marks each.[15 Marks]
2. One (1) Assignment during each semester for 10 Marks.

(Continuous assessment can be carried on the basis of the text-book prescribed for the syllabus- *An Introduction to the Skills for Employability*)

**End Semester examination for Semester III & IV will be conducted annually
(25+25=50 Marks)**

Question Paper Pattern: For Semester III & IV each

- | | |
|--|-------------------|
| 1. Skill Work Report Submission | - 10 Marks |
| 2. Overall Skill Judgment | - 10 Marks |
| 3. Skill Work Presentation | - 05 Marks |

* * * * *



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड— ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

Established on 17th September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



ACADEMIC (1-BOARD OF STUDIES) SECTION

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मानवविज्ञान विद्याशाखेतील पदवी
स्तरावरील द्वितीय वर्षाचे CBCS Pattern
नुसारचे अभ्यासक्रम शैक्षणिक वर्ष
२०१७-१८ पासून लागू करण्याबाबत.

परिपत्रक

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ३ मे २०१७ रोजी संपन्न झालेल्या ३८व्या मा. विद्या परिषद बैठकीतील विषय क्र.१२४/३८-२०१७ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील द्वितीय वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१७-१८ पासून लागू करण्यात येत आहेत.

- १) बी.ए./बी.कॉम./बी.एस्सी.—इंग्रजी (अनिवार्य, द्वितीय भाषा अतिरिक्त, ऐच्छिक)—द्वितीय वर्ष
- २) बी.ए.—हिंदी (ऐच्छिक)—द्वितीय वर्ष
- ३) बी.ए./बी.कॉम./बी.एस्सी.—कन्नड (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ४) बी.ए./बी.कॉम./बी.एस्सी.—मराठी (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ५) बी.ए./बी.कॉम./बी.एस्सी.—पाली (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ६) बी.ए./बी.कॉम./बी.एस्सी.—संस्कृत (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ७) बी.ए./बी.कॉम./बी.एस्सी./बी.एफ.ए./बी.एस.डब्ल्यू—उर्दू (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ८) बी.ए.—फॅशन डिझाईन—द्वितीय वर्ष
- ९) बी.ए.—अर्थशास्त्र—द्वितीय वर्ष
- १०) बी.ए.—भूगोल—द्वितीय वर्ष
- ११) बी.ए.—इतिहास—द्वितीय वर्ष
- १२) बी.ए.—मानव हक्क—द्वितीय वर्ष
- १३) बी.ए.—ग्रंथालय व माहितीशास्त्र—द्वितीय वर्ष
- १४) बी.ए.—जनसंवाद व पत्रकारिता—द्वितीय वर्ष
- १५) बी.ए.—सैनिकशास्त्र—द्वितीय वर्ष
- १६) बी.ए.—तत्त्वज्ञान—द्वितीय वर्ष
- १७) बी.ए.—राज्यशास्त्र—द्वितीय वर्ष
- १८) बी.ए.—मानसशास्त्र—द्वितीय वर्ष
- १९) बी.ए.—लोकप्रशासन—द्वितीय वर्ष
- २०) बी.ए.—समाजशास्त्र—द्वितीय वर्ष

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक—०१/परिपत्रक/पदवी—सीबीसीएस अभ्यासक्रम/
२०१६-१७/८४

दिनांक : ०७.०६.२०१७.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, यू.जी.सी. कक्ष, प्रस्तुत विद्यापीठ.

स्वाक्षरित / —
उपकुलसचिव
शैक्षणिक (१—अभ्यासमंडळ) विभाग



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड.

**SWAMI RAMANAND TEERTH
MARATHWADA UNIVERSITY,
NANDED**

SYLLABUS

HISTORY

Semester Pattern

(Choice Base Credit System)

B.A. Second Year

(With Effective from 2017-2018)

Swami Ramanand Teerth Marathwada University, Nanded
CBCS Pattern in the Subject of
HISTORY
B.A. Second Year
(Effective from 2017-2018)

Semester - III

Paper No.	Title of the paper	Internal Marks	External Marks
V	History of Medieval India (1526-1707 A.D.) OR History of Maratha (1630-1707 A.D.)	35	40
VI	History of British India (1757-1857 A.D.) OR Socio-Religious Reform Movement in India	35	40
SEC-I	Tourism	25	25

Semester - IV

Paper No.	Title of the paper	Internal Marks	External Marks
VII	History of Medieval India (1526-1707 A.D.) OR History of Maratha (1630-1707 A.D.)	35	40
VIII	History of British India (1757-1857 A.D.) OR Socio-Religious Reform Movement in India	35	40
SEC-II	Tourism	25	25

Swami Ramanand Teerth Marathwada University, Nanded

New syllabus of History
Effective from June – 2017

B.A. Second Year

Semester – III

History of Mediaeval India (1526 to 1707A.D.)

Paper – V

Credits – 03

Periods – 55

Marks 75

M.C.Q. + Theory, 10+30=40 Marks &		
Internal Marks - Test -15 Marks, Tutorial – 10 Marks, Seminar – 10Mark =35 Marks	Total Marks -75	
	Period	Marks
1) <u>Sources</u> Archeological & Literary	10	15
2) <u>Establishment and consolidation of Mughal Empire.</u> Babar, Akbar & Aurangzeb	15	20
3) <u>Mughal Relation With.</u> Rajput, Maratha & Sikha	10	15
4) <u>Mughal Polity.</u> Administrative Structure, Mansabdari & jagirdari system	10	15
5) <u>Mughal Ruling classes.</u> Ulema, Nobility, Jamindar.	10	10

Books for Reference

- १) भिडे गजानन, नलावडे, नाईकनवरे, मध्ययुगीन भारत, फडके प्रकाशन, कोल्हापुर, २००२.
- २) आचार्य धनंजय, भारताचा इतिहास (प्रारंभ ते १७६१), श्री. साईनाथ प्रकाशन, नागपूर, २००९.
- ३) कठारे अनिल, मध्ययुगीन भारताचा इतिहास, १००० ते १७०७ प्रशांत पब्लिकेशन्स, जळगाव, २०१३.
- ४) कठारे अनिल, मोगलकालीन भारताचा इतिहास, प्रशांत पब्लिकेशन, जळगाव, जूलै २०१५.
- ५) महाजन व्ही.डी., मध्ययुगीन भारत का इतिहास, एस.चंद पब्लिकेशन, दिल्ली.
- ६) बिरादार टी.के., मोगलकालीन भारत, रत्नदीप बुक सेंटर, उदगीर, १९९५.
- ७) देशमुख मा.म., मध्ययुगीन भारताचा इतिहास, विश्वभारतीय प्रकाशन, नागपुर १९९८.
- ८) सोमनाथ रोडे, मध्ययुगीन भारताचा राजकीय व सांस्कृतिक इतिहास, पिंपळापुरे अँड कं. पब्लिशअर्स, नागपूर १९९७.
- ९) केशेद्रीवार, मध्ययुगीन भारत, विद्या प्रकाशन, नागपुर.
- १०) Sharma S.R., Mughal Empire in India, Agra.

Swami Ramanand Teerth Marathwada University, Nanded

New syllabus of History
Effective from June – 2017

B.A. Second Year

Semester – IV

History of Mediaeval India (1526 to 1707A.D.)

Paper – VII

Credits – 03

Periods – 55

Marks 75

M.C.Q. + Theory, 10+30=40 Marks &		Total Marks -75	
Internal Marks - Test -15 Marks, Tutorial – 10 Marks, Seminar – 10Mark =35 Marks		Period	Marks
1)	<u>Economy.</u> Rural Economy, Agricultural, production, Management of Water resources. Urban Economy-Land revenue system, crafts, Industries, Trade & Commerce	10	15
2)	<u>Society.</u> The villege community, Peasantry, Agricultural labour & slave, craftsmen, Artians, urben social structure.	15	20
3)	<u>States of Women.</u> Women's rights, parada, Dasi & sati,	10	15
4)	<u>Religion.</u> Sufi, sant tradition, Bhakti Movement.	10	10
5)	<u>Art & Articturacture.</u> Taj Mahal, Bibika Makbara, Jama Masjid (Delhi), Red fort, Fatehapur Shikri.	10	15

Books for Reference

- १) भिडे गजानन, नलावडे, नाईकनवरे, मध्ययुगीन भारत, फडके प्रकाशन, कोल्हापुर, २००२.
- २) आचार्य धनंजय, भारताचा इतिहास, (प्रारंभ ते १७६१), श्री. साईनाथ प्रकाशन, नागपूर, २००९.
- ३) कठारे अनिल, मध्ययुगीन भारताचा इतिहास, १००० ते १७०७ प्रशांत पब्लिकेशन्स, जळगाव, २०१३.
- ४) कठारे अनिल, मोगलकालीन भारताचा इतिहास, प्रशांत पब्लिकेशन जळगाव, जूलै २०१५.
- ५) महाजन व्ही.डी., मध्ययुगीन भारत का इतिहास, एस.चंद पब्लिकेशन, दिल्ली.
- ६) बिरादार टी.के., मोगलकालीन भारत, रत्नदीप बुक सेंटर, उदगीर, १९९५.
- ७) देशमुख मा.म., मध्ययुगीन भारताचा इतिहास, विश्वभारतीय प्रकाशन, नागपुर १९९८.
- ८) सोमनाथ रोडे, मध्ययुगीन भारताचा राजकीय व सांस्कृतिक इतिहास, पिंपळापुरे अँड क. पब्लिशर्स, नागपूर १९९७
- ९) केशेद्रीवार, मध्ययुगीन भारत, विद्या प्रकाशन नागपुर.
- १०) Sharma S.R., Mughal Empire in India, Agra.

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B.A. Second Year

Semester – III

OR Paper -History of Maratha (1630-1707 A.D.)

Paper V

Credits – 03

Periods – 55

Marks 75

M.C.Q. + Theory, 10+30=40 Marks &		
Internal Marks - Test -15 Marks, Tutorial – 10 Marks, Seminar – 10Mark =35 Marks	Period	Total Marks -75
1) <u>Source Material for the study.</u> Archeological & Literary	10	10
2) <u>Rise of Maratha Power</u> Causes, shahajiraje Bhosle & Jijau, Chattrapati Shivaji Maharaj & his struggle with Adilshahi And Mughal.	10	15
3) <u>Chattrapati Shivaji Maharaj</u> Chattrapati shivaji Maharaj & Foreign Powers, Coronations, Karnatak Expedition, & his Religious Policy.	10	20
4) <u>Chattrapati Sambhaji Maharaj</u> Relation with Mughal, Adilshahi, Kutubshahi, Portuguese, British and Siddi.	15	15
5) <u>Maratha War of independence</u> Contribution of chattrapati Rajaram, Maharani Tarabai, Santaji Ghorpade & Dhanaji Jadhav, Significance of war.	10	15

Books for Reference

- १) भावे वा.कृ., शिवकालीन महाराष्ट्र, पूणे, वरदा प्रकाशन, प्रा.लि. १९९८.
- २) कुलकर्णी अ.रा.व खरे ग.ह., (संपा.) मराठ्यांचा इतिहास, खंड -१, नागपुर, महाराष्ट्र विद्यापीठ ग्रंथ निर्मिती मंडळ, १९८४.
- ३) देशपांडे प्र.न., मराठ्यांचा उदय आणि उत्कर्ष, पूणे, स्नेहवर्धन पब्लिशिंग हाऊस, २००१.
- ४) कोलारकर श.गो., मराठ्यांचा इतिहास, नागपूर, श्री. मंगेश प्रकाशन, १९९५.
- ५) गवळी पी.ए., मराठ्यांचा इतिहास, औरंगाबाद, कैलास पब्लिकेशन्स, १९९९.
- ६) पवार जयसिंगराव, मराठी सत्तेचा उदय, पूणे, निराली प्रकाशन, १९९६.
- ७) बिरादार टी.के., मराठ्यांचा इतिहास, लातूर, विद्याभारती प्रकाशन, २०००.
- ८) मारडीकर मदन, मराठ्यांचा इतिहास, औरंगाबाद, विद्या बुक्स पब्लिशर्स, जून २००८.
- ९) सावळे दिपा, मराठ्यांचा इतिहास, एज्युकेशन पब्लिशर्स अँड डिस्ट्रीब्युटर्स, औरंगाबाद २०१३.
- १०) खोबरेकर वि.गो., महाराष्ट्राचा इतिहास-मराठा कालखंड- भाग -१ शिवकाळ (१६३० ते १७०७ इ.) महाराष्ट्र राज्य साहित्य आणि संस्कृती मंडळ मुंबई. नोव्हेंबर २००६.
- ११) कोंडेकर आर.एस., मराठ्यांचा इतिहास, लातूर, अरुणा प्रकाशन, ०६ जून २०१४.
- १२) Kulkarni A.R., Maharashtra in the age of Shivaji.
- १३) Joshi P.S. Chatrapati Sambhaji.

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OR Paper- History of Maratha (1630-1707 A.D.)

Paper V

Credits – 03

Periods – 55

Marks 75

M.C.Q. + Theory, 10+30=40 Marks &			
Internal Marks - Test -15 Marks, Tutorial – 10 Marks, Seminar – 10Mark =35 Marks	Total Marks -75	Period	Marks
1) <u>Military System</u> Soldier, fort, Nevi.		10	10
2) <u>Administration</u> Central, Provincial & Rural.		10	15
3) <u>Economic & Social Condition</u> 1) <u>Economic Condition -</u> Land, Water Management (Dam, Tank, Talaw, Well) Land revenue, Source of income, Chouthai and Sardeshmukhi. 2) <u>Social Condition –</u> Vatandar, Balutedar, Alutedar, Wetbigari, Status of Women, Marriage System and Women's Education.		15	20
4) <u>Industries & Trade.</u> Industries - Salt, cloth, ship, glass, paper & fishery. Trade- Market Place (Trading Market) Trade Center, Commodities(Goods), Currency.		10	15
5) <u>Religion & culture.</u> Maharashtra Dharma. Festival-fairs. Daivate- vithoba, Tulja Bhawani, Khandoba, Mahalaxmi, Superstitious, Rural goddess.		10	15

Books for Reference

- १) भावे वा.कृ., शिवकालीन महाराष्ट्र, पूणे, वरदा प्रकाशन, प्रा.लि. १९९८.
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- ३) देशपांडे प्र.न., मराठ्यांचा उदय आणि उत्कर्ष, पूणे, स्नेहवर्धन पब्लिशिंग हाऊस, २००१.
- ४) कोलारकर श.गो., मराठ्यांचा इतिहास, नागपुर, श्री. मंगेश प्रकाशन, १९९५.
- ५) गवळी पी.ए., मराठ्यांचा इतिहास, औरंगाबाद, कैलास पब्लिकेशन्स, १९९९.
- ६) पवार जयसिंगराव, मराठी सत्तेचा उदय, पूणे, निराली प्रकाशन, १९९६.
- ७) बिरादार टी.के., मराठ्यांचा इतिहास, लातूर, विद्याभारती प्रकाशन, २०००.
- ८) माडीकर मदन, मराठ्यांचा इतिहास, औरंगाबाद, विद्या बुक्स पब्लिशर्स, जून २००८.
- ९) सावळे दिपा, मराठ्यांचा इतिहास, एज्युकेशन पब्लिशर्स अॅन्ड डिस्ट्रीब्युटर्स, औरंगाबाद २०१३.
- १०) खोबरेकर, वि.गो. महाराष्ट्राचा इतिहास-मराठा कालखंड- भाग -१ शिवकाळ (१६३० ते १७०७ इ.) महाराष्ट्र राज्य साहित्य आणि संस्कृती मंडळ मुंबई. नोव्हेंबर २००६.
- ११) कठारे अनिल व घोडके जयश्री शिवकालीन महाराष्ट्र अल्फा पब्लिकेशन नांदेड.
- १२) कुलकर्णी अ.रा., शिवकालीन महाराष्ट्र, राजहंस प्रकाशन,पूणे, १९९७.
- १३) कोंडेकर आर.एस., मराठ्यांचा इतिहास, लातूर, अरुणा प्रकाशन, ०६ जून २०१४.
- १४) Kulkarni A.R., Maharashtra in the age of Shivaji.
- १५) Joshi P.S. Chatrapati Sambhaji.
- १६) Sardesai Govind Sakharam New History of the Maratha Vol.1

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B.A. Second Year

Semester – III

History of British India (1757 to 1857 A.D.)

Paper – VI

Credits – 03

Periods – 55

Marks 75

M.C.Q. + Theory, 10+30=40 Marks &		
Internal Marks - Test -15 Marks, Tutorial – 10 Marks, Seminar – 10Mark =35 Marks	Total Marks -75	
	Period	Marks
1) <u>Establishment of British Rule.</u>	15	20
Adevent of the European powers, British-French Conflict, Battle of Plassey & Buxar.		
2) <u>Robert Clive.</u>	10	15
Internal reforms and dual Government system.		
3) <u>Expansion of British Rule.</u>	15	20
Ideologies of expansion, Warren Hastings, Lord Cornwallis, Lord Wellesly, Lord Hastings & Lord Dalhousie.		
4) <u>Consolidation of British Rule.</u>	15	20
Internal Reforms of Lord Bentinck & Lord Dalhousie.		

Books for Reference

- १) कठारे अनिल, आधुनिक भारताचा इतिहास, कल्पना प्रकाशन, नांदेड, २०१७.
- २) कठारे अनिल, ब्रिटीशकालीन भारताचा इतिहास, एज्युकेशन पब्लिशर्स अँड डिस्ट्रीब्युटर्स, औरंगाबाद, २०१४.
- ३) खोबरेकर वि.गो., महाराष्ट्रातील स्वातंत्र्य लढे, मुंबई. म.रा.सा.व.संस्कृती मंडळ, १९९४.
- ४) वैद्य सुमन व कोठेकर शांता, आधुनिक भारताचा इतिहास (१७५७-१८५७), नागपूर, साईनाथ प्रकाशन, २०१२.
- ५) सातभाई श्रीनिवास, आधुनिक भारताचा इतिहास, विद्या बुक्स पब्लिशर्स, औरंगाबाद, २०१४.
- ६) पवार जयसिंगराव, भारतीय स्वातंत्र्य चळवळीचा इतिहास, निराली प्रकाशन, पुणे, २०१३.
- ७) दीक्षित ना.सी., भारताचा इतिहास (१५२६-१९४७) पिंपळापुरे अँड कंपनी पब्लिशर्स, नागपूर २००५.
- ८) ग्रोवर बि.एस., बेल्हेकर के.एन. आधुनिक भारताचा इतिहास एस चंद आणि कंपनी नवी दिल्ली, संशोधित संस्करण, २०१४.
- ९) तांबोळी एन.एस., व्ही.पी. पवार, आधुनिक भारत (१७५० ते २००९) पूणे निराली प्रकाशन, फेब्रु. २०१०.
- १०) केशवरीवार के.मु., अर्वाचीन भारत पडगीलवार प्रकाशन, नागपूर, १९७०.
- ११) ढवळे प्र.क., अर्वाचीन भारताचा इतिहास, विद्या प्रकाशन नागपूर, १९७३.
- १२) देशपांडे प्र.न., अर्वाचीन भारत (इ.स. १७१३ ते १९५७), कॉन्टीनेन्टल प्रकाशन, पूणे, १९७६.
- १३) Mahajan V.D., The Nationalist movement in India, sterling publishers, New Delhi.

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New syllabus of History
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B.A. Second Year

Semester – IV

History of British India (1757 to 1857 A.D.)

Paper – VIII

Credits – 03

Periods – 55

Marks 75

M.C.Q. + Theory, 10+30=40 Marks &		
Internal Marks - Test -15 Marks, Tutorial – 10 Marks, Seminar – 10Mark =35 Marks	Total Marks -75	
	Period	Marks
1) <u>Economic Changes.</u>	15	20
Land revenue system-Permanent settlement, Rayatwari and Mahalwari system, commercialization of Agriculture, De-industrialization & its effects.		
2) <u>Education & Press.</u>	10	15
Educational activities of Christian Missionaries, Education Policy of British Government , press.		
3) <u>Indian Economy.</u>	15	20
Trade, Agriculture and Industry.		
4) <u>Popular Resistance to company's rule.</u>	15	20
Early uprising, Outbreak of 1857- its causes, course and results.		

Books for Reference

- १) कठारे अनिल, आधुनिक भारताचा इतिहास (१७५७-१८५७), जळगाव, प्रशांत पब्लिकेशन्स, २०१३.
- २) कठारे अनिल, ब्रिटीशकालीन भारताचा इतिहास, एज्युकेशन पब्लिशर्स अँड डिस्ट्रीब्युटर्स, औरंगाबाद, २०१४.
- ३) खोबरेकर वि.गो., महाराष्ट्रातील स्वातंत्र्य लढे, मुंबई. म.रा.सा.व.संस्कृती मंडळ, १९९४.
- ४) वैद्य सुमन व कोठेकर शांता, आधुनिक भारताचा इतिहास (१७५७-१८५७), नागपूर, साईनाथ प्रकाशन, २०१२.
- ५) सातभाई श्रीनिवास, आधुनिक भारताचा इतिहास, विद्या बुक्स पब्लिशर्स, औरंगाबाद, २०१४.
- ६) पवार जयसिंगराव, भारतीय स्वातंत्र्य चळवळीचा इतिहास, निराली प्रकाशन, पुणे, २०१३.
- ७) दीक्षित ना.सी., भारताचा इतिहास (१५२६-१९४७) पिंपळापुरे अँड कंपनी पब्लिशर्स, नागपुर २००५.
- ८) ग्रोवर बि.एस., बेल्हेकर के.एन. आधुनिक भारताचा इतिहास एस चंद आणि कंपनी नवी दिल्ली, संशोधित संस्करण २०१४.
- ९) तांबोळी एन.एस., व्ही.पी. पवार आधुनिक भारत (१७५० ते २००९) पूणे, निराली प्रकाशन, फेब्रु. २०१०.
- १०) केशेड्वीवार के.मु., अर्वाचीन भारत, पडगीलवार प्रकाशन, नागपुर, १९७०.
- ११) ढवळे प्र.क., अर्वाचीन भारताचा इतिहास, विद्या प्रकाशन, नागपुर, १९७३.
- १२) देशपांडे प्र.न., अर्वाचीन भारत (इ.स. १७१३ ते १९५७), कॉन्टीनेन्टल प्रकशन, पूणे, १९७६.
- १३) Mahajan V.D.,The Nationalist movement in India,sterling publishers,New Delhi.

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Semester – III

OR Paper- Socio- Religious Reform Movement in India

Paper – VI

Credits – 03

Periods – 55

Marks 75

M.C.Q. + Theory, 10+30=40 Marks &		
Internal Marks - Test -15 Marks, Tutorial – 10 Marks, Seminar – 10Mark =35 Marks	Period	Total Marks -75
1) Reform movement Cause's effects and its Impacts on Society.	15	20
2) Socio-religious reform movements Brahomo Samaj, Arya Samaj, Thiosophical Society, Ramkrishna Mission.	10	15
3) Social Reform Movements Manavdharm Sabha, Paramhans Sabha Satyashodak Samaj, Prarthana Samaj, Indian National Social Conference, Muslim, Sikh and Parshi.	15	20
4) Non Brahmin Movements Justice party, Dravid Munnetra Kazhagam, Shri Narayan Dharm Paripalam Yogam, Periyar Ramswami.	15	20

Books for Reference

- १) कठारे अनिल, महाराष्ट्रातील समाजसुधारक, विद्या बुक्स पब्लिशर्स, औरंगाबाद, २०१४
- २) गरुड अण्णासाहेब व सावंत बी.बी. महाराष्ट्राच्या समाज सुधारणेचा इतिहास, कैलास पब्लिकेशन्स, औरंगाबाद, १९९५.
- ३) कोंडेकर आर.एस., रयतेचा राजा राजर्षी शाहू महाराज, अरुणा प्रकाश, लातूर, २०११.
- ४) कठारे अनिल, भारतातील सामाजिक व धार्मिक सुधारणा चळवळीचा इतिहास, प्रशांत पब्लिकेशन, जळगाव, २०१५.
- ५) Wagh Sandesh, Socio-Political Conditions in the Nienettenth century India, Sandesh Publications, Mumbai, 2012
- ६) डोंगरे वसंत, डॉ. बाबासाहेब आंबेडकर आणि इतिहास मिमांसा, देवयानी प्रकाशन, मुंबई, २०१४.
- ७) कठारे अनिल, वाघमारे महादेव व पाटील गौतम, महाराष्ट्रातील आंबेडकर चळवळीचा इतिहास, औरंगाबाद, चिन्मय प्रकाशन, ऑगस्ट २००९.
- ८) कांबळे बी.सी., समग्र आंबेडकर चरित्र, खंड-१ ते १४ पूणे, सुगावा प्रकाशन, २००६-२००८.
- ९) कीर धनंजय, डॉ. बाबासाहेब आंबेडकर, मुंबई, पॉप्युलर प्रकाशन, १९९२.
- १०) खैरमोडे चांगदेव, डॉ. भीमराव रामजी आंबेडकर, खंड १ ते १२ पुणे, सुगावा प्रकाशन, १९९२.
- ११) गाठाळ साहेबराव, आंबेडकर चळवळीचा इतिहास, औरंगाबाद, कैलास पब्लिकेशन्स, जानेवारी २०१०.
- १२) कठारे अनिल, फुले शाहू आंबेडकर, पुनम प्रकाशन, कंधार, २०११.
- १३) गाढे एस.बी., शाहू आंबेडकर विचारधारा, लातूर, ज्योतिचंद्र पब्लिकेशन, २०१७.
- १४) Tatke Nilam Maharashtraatil Samaj Sudharak.

Swami Ramanand Teerth Marathwada University, Nanded

New syllabus of History
Effective from June – 2017

B.A. Second Year
Semester – IV

OR Paper -Socio- Religious Reform Movement in India

Paper – VIII

Credits – 03

Periods – 55

Marks 75

M.C.Q. + Theory, 10+30=40 Marks &		
Internal Marks - Test -15 Marks, Tutorial – 10 Marks, Seminar – 10Mark =35 Marks	Period	Total Marks -75
1) Movement for upliftment of women Mahatma Phule, Pandita Ramabai, D.K. Karve Hindu Code bill and Dr. B.R. Ambedkar.	15	20
2) Removal of Untouchability Mahatma Phule, Shahu Maharaj, M.K. Gandhi and Dr. B.R. Ambedkar.	10	15
3) Dr.B.R. Ambedkar Social, Religious & Labour Movement.	15	20
4) Educational Movement, Mahatma Phule,Shahu Maharaj, Dr. B.R. Ambedkar, Karmveer Bhaurao Patil, Sir Sayad Ahmed khan.	15	20

Books for Reference

- १) कठारे अनिल, महाराष्ट्रातील समाजसुधारक, विद्या बुक्स पब्लिशर्स, औरंगाबाद, २०१४
- २) गरुड अण्णासाहेब व सावंत बी.बी. महाराष्ट्राच्या समाज सुधारणेचा इतिहास, कैलास पब्लिकेशन्स, औरंगाबाद, १९९५.
- ३) कोंडेकर आर.एस., रयतेचा राजा राजर्षी शाहू महाराज, अरुणा प्रकाश, लातूर, २०११.
- ४) कठारे अनिल, भारतातील सामाजिक व धार्मिक सुधारणा चळवळीचा इतिहास, प्रशांत पब्लिकेशन, जळगाव, २०१५.
- ५) Wagh Sandesh, Socio-Political Conditions in the Ninetenth century India, Sandesh Publications, Mumbai, 2012
- ६) डोंगरे वसंत, डॉ. बाबासाहेब आंबेडकर आणि इतिहास मिमांसा, देवयानी प्रकाशन, मुंबई, २०१४.
- ७) कठारे अनिल, वाघमारे महादेव व पाटील गौतम, महाराष्ट्रातील आंबेडकर चळवळीचा इतिहास, औरंगाबाद, चिन्मय प्रकाशन, ऑगस्ट २००९.
- ८) कांबळे बी.सी., समग्र आंबेडकर चरित्र, खंड-१ ते १४ पूणे, सुगावा प्रकाशन, २००६-२००८.
- ९) कीर धनंजय, डॉ. बाबासाहेब आंबेडकर, मुंबई, पॉप्युलर प्रकाशन, १९९२.
- १०) खैरमोडे चांगदेव, डॉ. भीमराव रामजी आंबेडकर, खंड १ ते १२ पुणे, सुगावा प्रकाशन, १९९२.
- ११) गाठाळ साहेबराव, आंबेडकर चळवळीचा इतिहास, औरंगाबाद, कैलास पब्लिकेशन्स, जानेवारी २०१०.
- १२) कठारे अनिल, फुले शाहू आंबेडकर, पुनम प्रकाशन, कंधार, २०११.
- १३) गाढे एस.बी., शाहू आंबेडकर विचारधारा, लातूर, ज्योतिचंद्र पब्लिकेशन, २०१७.
- १४) Tatke Nilam Maharashtraatil Samaj Sudharak.

Symple Question Paper

Faculty of Social Sciences

B.A. (Second Year) Examination

Oct./Nov. 2017

History

Paper – V

History of Medieval India (1526 to 1707 A.D.)

(MCQ+Theory)

Date: 07/02/2017

Time : 02:00p.m. to 04:00 p.m.

Time : 2hrs

Maximum Marks – 40

- N.B.** i) All question are Compulsory.
ii) All question carry equal Marks.
१) सर्व प्रश्न आवश्यक
२) सर्व प्रश्नांना समान गुण.

MCQ

i) Multipal Choice Questions :
बहुपर्यायी प्रश्न

10

- 1) Where is the 'Buland Darwaja' ?
a) Fathepur b) Delhi c) Agra d) Hydrabad
बुलंद दरवाजा कोठे आहे ?
अ) फतेपुर ब) दिल्ली क) आग्रा ड) हैद्राबाद
- 2) When did Babar die ?
a) 1526 A.D. b) 1528 A.D. c) 1530 A.D. d) 1532 A.D.
बाबराचा मृत्यु केव्हा झाला ?
अ) इ.स.१५२६ ब) इ.स. १५२८ क) इ.स. १५३० ड) इ.स. १५३२
- 3) ----- is Archaeological Sources
a) Nani b) Akbarnama c) Tujuk A Babari d) None of them
----- हे पुरातत्वीय साधन आहे.
अ) नानी ब) अकबरनामा क) तुजुक ए बाबरी ड) वरील पैकी नाही.
- 4) Aurangzeb died at -----
a) Ahmednager b) Aurangabad c) Bijapur d) Golkonda
औरंगजेबाचा मृत्यू ----- येथे झाला.
अ) अहमदनगर ब) औरंगाबाद क) विजापूर ड) गोवळकोंडा
- 5) Where is Situated the Bibi ka Makbara ?
a) Delhi b) Fathepur Sikri c) Kabul d) Aurangabad
बेबी का मकबरा कोठे आहे.
अ) दिल्ली ब) फतेपुर सिकरी क) काबूल ड) औरंगाबाद
- 6) Whose period was known as the 'Golden Age' of Medieval Period in India.
a) Akbar b) Shah Jahan c) Aurangzeb d) Jahangir
कोणाचा कालखंड मध्ययुगीन भारताच्या इतिहासात 'सुवर्णकाळ' म्हणून ओळखला जातो.
अ) अकबर ब) शाहजहान क) औरंगजेब ड) जहांगीर

// २ //

- 7) ----- is the founder of Mughal Empire
 a) Akbar b) Aurangzeb c) Babar d) Shershah Suri
 -----हे मुगल साम्राज्याचे संस्थापक आहे.
 अ) अकबर ब) औरंगजेब क) बाबर ड) शेरशहा सुरी
- 8) When did Aurangzeb die ?
 a) 1700 A.D. b) 1707 A.D. c) 1799 A.D. d) 1526 A.D.
 औरंगजेबाचा मृत्यु केव्हा झाला ?
 अ) इ.स. १७०० ब) इ.स. १७०७ क) इ.स. १७९९ ड) इ.स. १५२६
- 9) Which is not Literary sources
 a) Fort b) Babarnama c) Akbarnama d) all of above
 खालील पैकी कोणते लिखित साधन नाही.
 अ) किल्ला ब) बाबरनामा क) अकबरनामा ड) वरील सर्व
- 10) In Mughal Administration Taluka chief was called as -----
 a) Subhedar b) Shikedar c) Foujdar d) None of those
 मुगल प्रशासनात तालुका प्रमुखाला काय म्हणतात.
 अ) सुभेदार ब) सीकेदार क) फौजदार ड) वरील पैकी नाही.

Theory

- Q. 2 Explain the archaeological sources of the History of Mediaeval India 10
 मध्ययुगीन भारताच्या इतिहासाची पुरातत्वीय साधने स्पष्ट करा.

Or
किंवा

Describe the Religious Policy of Akbar
 अकबराचे धार्मीक धोरण स्पष्ट करा.

- 3) Describe the Central Administration of the Mughals 10
 मुघल सत्तेच्या केंद्रीय प्रशासन व्यवस्थेचे वर्णन करा.

Or
किंवा

Write the Cause of downfall of Mughal Empire
 मुघल सत्तेच्या विनाशाची कारणे लिहा.

- 4) Write Short notes on (any two) 10
 1) Rajput & Mughal Relation.
 2) Bibi ka Makbara.
 3) Literary sources.
 4) Samrat Akbar.
कोणत्याही दोनवर थोडक्यात टिपा लिहा.
 १) रजपूत-मुगल संबंध.
 २) बीबी का मकबरा.
 ३) वाङ्मयीन.
 ४) सम्राट अकबर.

Swami Ramanand Teerth Marathwada University, Nanded

New syllabus of History
Effective from June – 2017

B.A. Second Year

Semester – III

Skill Enhancement Courses (SEC)

Tourism (SEC) - I

Credits – 02

Periods – 45

Marks 50

M.C.Q. + Theory, 5 + 20 = 25 Marks & Internal Marks - Test -15 Marks, Presentation – 10 Mark = 25			Total Marks - 50
		Period	Marks
1)	<u>Introduction of Tourism</u> Definitions, Historical background, Types, Nature and scope of tourism, Motivation of Tourism.	10	10
2)	<u>Development of Tourism</u> Purpose and importance, Sarjant committee, Maharashtra Tourism Development Corporation, Role of History in Tourism.	15	15
3)	<u>Transport and Accommodation</u> Transport – Nature, Travel agencies, Guide's Accommodation- nature and Types.	10	15
4)	<u>Planning and operation</u> Planning, Market, Advertising.	10	10

Book for Reference :-

- १) कठारे अनिल, साखरे विजया व पाटील गौतम, पुरातत्व विद्या वस्तु संग्रहालयशास्त्र आणि पर्यटन, विद्या बुक्स पब्लिशर्स, मार्च २०११.
- २) साखरे विजया, ऐतिहासिक पर्यटन, अक्षरलेखन प्रकाशन, सोलापूर, २०१२.
- ३) महाजन शां.ग. दफ्तरखाने आणि वस्तु संग्रहालये, पुणे, पुणे विद्यार्थी वस्तीगृह प्रकाशन, जून २०१२.
- ४) Mr. Dulari Qureshi, T.V. Pathy Stone Sculpture in the History Museum Marathwada University, Aurangabad, 1984.
- ५) Education of Bhokardan 1973 Nagpur University & Marathwada University, 1974.
- ६) अनिल कठारे, विजया साखरे, मंदिरे आणि मुर्तीशिल्प, अल्फा पब्लिकेशन नांदेड. २००८.
- ७) गो.नी. दांडेकर, महाराष्ट्र दर्शन, मृण्मयी प्रकाशन, पुणे, २००९.
- ८) अनिल कठारे, भारतीय कला आणि स्थापत्य खंड दुसरा, पुनम प्रकाशन, कंधार.
- ९) विकास पर्यटन मार्गदर्शिका महाराष्ट्र, पृथ्वीराज प्रकाशन, तेर, (ता. उस्मानाबाद).
- १०) एस.बी. शिंदे, पर्यटन भूगोल, फडके बुक हाऊस, पुण, २०००.
- ११) शैला कामत, संपूर्ण महाराष्ट्र, उन्मेश प्रकाशन, चंद्रनिल अपार्टमेंट पुणे.

**Swami Ramanand Teerth Marathwada University,
Nanded**

**New syllabus of History
Effective from June – 2017**

**B.A. Second Year
Semester – IV**

Skill Enhancement Courses (SEC)

Tourism (SEC) - II

Credits – 02

Periods – 45

Marks 50

M.C.Q. + Theory, 5 + 20 = 25 Marks &

Internal Marks - Test -15 Marks, Presentation – 10 Mark = 25

Total Marks - 50

	Period	Marks
1) <u>Caves & Temples</u>	10	10
1) Caves – Ajintha, Ellora, Shihur, Mahur. 2) Temples – Hottel, Aunda Nagnath, Parali Vaijanath.		
2) Fort's	15	15
Dev giri, Kandhar, Mahur, Udgir.		
3) Memorials	10	15
Bibi ka Makbara, Gurudwara, Golghumat, Chaitybhumi.		
4) <u>Museums</u>	10	10
Ter, Mhaur, Bhaddarpura, Aurangabad.		

Book for Reference :-

- १) कठारे अनिल, साखरे विजया व पाटील गौतम, पुरातत्व विद्या वस्तु संग्रहालयशास्त्र आणि पर्यटन, विद्या बुक्स पब्लिशर्स, मार्च २०११.
- २) साखरे विजया, ऐतिहासिक पर्यटन, अक्षरलेण प्रकाशन, सोलापूर, २०१२
- ३) महाजन शां.ग., दफ्तरखाने आणि वस्तु संग्रहालये, पुणे, पुणे विद्यार्थी वस्तीगृह प्रकाशन, जून २०१२.
- ४) कठारे अनिल, मराठवाडयातील लेणी, कल्पना प्रकाशन, नांदेड, २००१
- ५) गजानन पाटील, अशोक साबणे, व अनिल कठारे प्राचीन शिव आणि जैन मंदिरे, पूनम प्रकाशन, कंधार, २०१२
- ६) Mr. Dulari Qureshi, T.V. Pathy Stone Sculpture in the History Museum Marathwada University, Aurangabad, 1984.
- ७) Education of Bhokardan 1973 Nagpur University & Marathwada University, 1974.
- ८) अनिल कठारे, विजया साखरे, मंदिरे आणि मुर्तीशिल्प, अल्फा पब्लिकेशन नांदेड, २००८.
- ९) गो.नी.दांडेकर, महाराष्ट्र दर्शन, मृण्मयी प्रकाशन, पुणे, २००१.
- १०) कठारे अनिल, भारतीय कला आणि स्थापत्य खंड दुसरा, पुनम प्रकाशन, कंधार.
- ११) कठारे पुनम, महाराष्ट्रातील किल्ले एज्युकेशनल पब्लिशर्स अँड डिस्ट्रीब्युटर्स, औरंगाबाद, २०१४.
- १२) विकास पर्यटन मार्गदर्शिका महाराष्ट्र, पृथ्वीराज प्रकाशन, तेर, (ता. उस्मानाबाद).
- १३) एस.बी. शिंदे, पर्यटन भूगोल, फडके बुक हाऊस, पुणे, २०००.
- १४) शैला कामत, संपूर्ण महाराष्ट्र, उन्मेश प्रकाशन, चंद्रनिल अपार्टमेंट, पुणे.

Symple Question Paper
Faculty of Social Sciences
B.A. (Second year) Examination
Oct/Nov. 2017
Skill Enhancement Courses (SEC)
Tourism (SEC) - I

Date: 07/02/2017

Time : 2:00 to 3.15pm

Time : 1.15 hrs

Maximum Marks - 25

- N.B. i) All Question are Compulsory
ii) All question carry equal Marks.
1) सर्व प्रश्न आवश्यक
2) सर्व प्रश्नांना समान गुण

MCQ

- i) Multiple Choice Question s: 05

Q. 1 How does tourism help to the Nation ?

- a) Satisfaction b) Foreign Currency c) Happiness d) Enthusiasm

पर्यटनामुळे राष्ट्राला काय फायदा मिळतो ?

- अ) समाधान ब) परकीय चलन क) आनंद ड) उत्साह

2. What Kind of resources were used in Ancient India for travelling ?

- a) By walking b) By Railway c) By Bus d) Airplane

प्राचीन भारतात वाहतुकीसाठी कोणत्या साधनाचा वापर होत असे?

- अ) पायी चालणे ब) रेल्वे क) बस ड) विमान

3. is the fastest source of Tourism in Modern Times.

- a) Bus b) Railway c) Aeroplane d) All of above

सद्यपरिस्थितीत पर्यटनाचे ----- हे जलद साधन आहे.

- अ) बस ब) रेल्वे क) विमान ड) वरील पैकी सर्व

4. By whom adventurous tourism is performed ?

- a) Coward men b) Merry men c) Adventurous men d) None of above

साहसप्रधान पर्यटन कोणाकडून होतात ?

- अ) भिड्या व्यक्तीकडून ब) आनंददायी व्यक्तीकडून क) धाडसी व्यक्तीकडून ड) यापैकी नाही

5. Which committee was formed in 1945 A.D. for tourism ?

- a) Sarjent committee b) Middle Tourism Committee
c) Tourism Transport Committee d) Tourism Administration Committee

पर्यटनासाठी इ.स. १९४५ मध्ये कोणती कमिटी नियुक्त करण्यात आली ?

- अ) सार्जेंट कमिटी
ब) मध्ययुगीन पर्यटन कमिटी
क) पर्यटन वाहतूक कमिटी
ड) पर्यटन प्रशासन कमिटी

Theory Question

Q.2 What is the definition of Tourism & write the historical background of tourism 10

पर्यटनाची व्याख्या सांगून पर्यटनाची ऐतिहासिक पार्श्वभूमी लिहा. ?

OR

किंवा

Write in detail the types of Tourism

पर्यटनाचे प्रकार सविस्तर लिहा.

Q.3 Write a short note on Any Two 10

- 1) Significance of Tourism.
 - 2) Scope of Tourism in 'Modern Times'.
 - 3) Sarjant Committee.
 - 4) Advertising & Tourism.
- कोणत्याही दोनवर थोडक्यात टिपा लिहा.
- १) पर्यटनाचे महत्त्व.
 - २) पर्यटनाची व्याप्ती.
 - ३) सार्जेंट कमिटी.
 - ४) जाहिरात आणि पर्यटन.



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड— ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

Established on 17th September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



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स्तरावरील द्वितीय वर्षाचे CBCS Pattern
नुसारचे अभ्यासक्रम शैक्षणिक वर्ष
२०१७-१८ पासून लागू करण्याबाबत.

परिपत्रक

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ३ मे २०१७ रोजी संपन्न झालेल्या ३८व्या मा. विद्या परिषद बैठकीतील विषय क्र.१२४/३८-२०१७ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील द्वितीय वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१७-१८ पासून लागू करण्यात येत आहेत.

- १) बी.ए./बी.कॉम./बी.एस्सी.—इंग्रजी (अनिवार्य, द्वितीय भाषा अतिरिक्त, ऐच्छिक)—द्वितीय वर्ष
- २) बी.ए.—हिंदी (ऐच्छिक)—द्वितीय वर्ष
- ३) बी.ए./बी.कॉम./बी.एस्सी.—कन्नड (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ४) बी.ए./बी.कॉम./बी.एस्सी.—मराठी (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ५) बी.ए./बी.कॉम./बी.एस्सी.—पाली (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ६) बी.ए./बी.कॉम./बी.एस्सी.—संस्कृत (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ७) बी.ए./बी.कॉम./बी.एस्सी./बी.एफ.ए./बी.एस.डब्ल्यू—उर्दू (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ८) बी.ए.—फॅशन डिझाईन—द्वितीय वर्ष
- ९) बी.ए.—अर्थशास्त्र—द्वितीय वर्ष
- १०) बी.ए.—भूगोल—द्वितीय वर्ष
- ११) बी.ए.—इतिहास—द्वितीय वर्ष
- १२) बी.ए.—मानव हक्क—द्वितीय वर्ष
- १३) बी.ए.—ग्रंथालय व माहितीशास्त्र—द्वितीय वर्ष
- १४) बी.ए.—जनसंवाद व पत्रकारिता—द्वितीय वर्ष
- १५) बी.ए.—सैनिकशास्त्र—द्वितीय वर्ष
- १६) बी.ए.—तत्त्वज्ञान—द्वितीय वर्ष
- १७) बी.ए.—राज्यशास्त्र—द्वितीय वर्ष
- १८) बी.ए.—मानसशास्त्र—द्वितीय वर्ष
- १९) बी.ए.—लोकप्रशासन—द्वितीय वर्ष
- २०) बी.ए.—समाजशास्त्र—द्वितीय वर्ष

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक—०१/परिपत्रक/पदवी—सीबीसीएस अभ्यासक्रम/
२०१६-१७/८४

दिनांक : ०७.०६.२०१७.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, यू.जी.सी. कक्ष, प्रस्तुत विद्यापीठ.

स्वाक्षरित / —

उपकुलसचिव

शैक्षणिक (१—अभ्यासमंडळ) विभाग

वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड
विषय : मराठी
पदवी - द्वितीय वर्ष - सत्र पध्दती व ऐच्छिक निवड
श्रेयांक पध्दत (CBCS)
जून 2017 पासून लागू

सत्र	अध्यासपत्रिका क्रमांक	अध्यासपत्रिकेचे नाव	आठवड्याच्या तासिका	एकूण तासिका	अंतर्गत मूल्यांकन गुण CA	सत्र गुण ESC	एकूण गुण	श्रेयांक
III	V	आधुनिक वाङ्मयप्रकार : आत्मचरित्र	04	50	35	40	75	03
	VI	आधुनिक वाङ्मयप्रकार : नाटक	04	50	35	40	75	03
	III (S.L.)	साहित्यधारा भाग-1	04	50	35	40	75	03
	I	मराठी भाषिक उपयोजन व लेखन कौशल्ये	03	45	25	25	50	02
IV	VII	आधुनिक वाङ्मयप्रकार : कादंबरी	04	50	35	40	75	03
	VIII	मध्ययुगीन गद्य पद्यांचा अभ्यास	04	50	35	40	75	03
	IV (S.L.)	साहित्यधारा भाग-2	04	50	35	40	75	03
	II	मराठी भाषिक नवनिर्मिती व संभाषण कौशल्ये	03	45	25	25	50	02

सत्र - तिसरे

अभ्यास घटक : १) कार्यालयीन पत्रव्यवहार

२) वृत्तपत्रातील बातमीलेखन

३) प्रसारमाध्यमांतील जाहिरातलेखन

उद्दिष्टे

- १) पत्रलेखनाचे कौशल्य विकसीत होईल.
- २) पत्राची सुयोग्य मांडणी करता येईल व पत्रलेखनाचे भाषिक कौशल्ये विकसीत होईल.
- ३) विविध वृत्तपत्रातील बातमीलेखनाचे स्वरूप लक्षात येईल.
- ४) बातमीलेखनाचे कौशल्ये आत्मसात होईल.
- ५) वेगवेगळ्या प्रसारमाध्यमांसाठी लागणाऱ्या जाहिरातलेखनाचे कौशल्य विकसीत होईल.

महत्त्व :

- १) पत्रलेखनामुळे कार्यालयीन व व्यावसायिक कामकाज सुरळीतपणे पार पाडता येईल.
- २) विविध प्रसारमाध्यमांसाठी बातमीलेखन करता येईल.
- ३) विद्यार्थ्यांना प्रसारमाध्यमांतील बातमीलेखनामुळे रोजगाराच्या संधी उपलब्ध होतील.
- ४) जाहिरातलेखनाचे तंत्र अवगत केल्याने विविध व्यावसायिक क्षेत्रात प्रभावीपणे जाहिरातलेखन करता येईल.
- ५) जाहिरात लेखनकौशल्यामुळे विविध क्षेत्रात रोजगाराच्या संधी मिळतील.

अभ्यासघटक :

१) कार्यालयीन पत्रव्यवहार -

१५ तासिका

अ) पत्रलेखनाची संकल्पना

ब) पत्रलेखनाचे स्वरूप

क) पत्रलेखनाचे घटक

ड) पत्रलेखनाचे प्रकार



०५ तासिका

इ) पत्रलेखनाच्या विविध प्रकारांचे प्रात्यक्षिक -

१० तासिका

१) कार्यालयीन पत्र २) कार्यालयीन आदेश ३) प्रमाणपत्र ४) नोकरीसाठी अर्ज

५) मागणी पत्र ६) तक्रारपत्र ७) अभिनंदन पत्र

८) पत्रलेखनाचे काही नमुने पाहण्यासाठी विविध कार्यालयास भेटी देणे

२) वृत्तपत्रातील बातमीलेखन :

१५ तासिका

- अ) बातमी : संकल्पना
ब) बातमीची उगमस्थाने
क) बातमीचे मूल्यघटक
ड) बातमीचे प्रकार
इ) बातमीलेखनाची मांडणी



०५ तासिका

१० तासिका

- १) मराठी वाङ्मय मंडळ उद्घाटन २) वार्षिक स्नेह संमेलन ३) विद्यार्थी परिषद उद्घाटन
४) भित्तिपत्रकाचे विमोचन ५) वाद-विवाद स्पर्धा ६) मराठी भाषा गौरव दिन
७) रक्तदान शिबीर ८) मराठी अभ्यास सहल ९) स्वातंत्र्य दिन / प्रजासत्ताक दिन / विद्यापीठ
वर्धापन दिन इ. कार्यक्रमासंबंधीच्या बातम्या तयार करणे. तसेच आपल्या परिसरातील वृत्तपत्र
कार्यालयास भेट देणे.

३) प्रसारमाध्यमांतील जाहिरातलेखन :

१५ तासिका

- अ) जाहिरात संकल्पना
ब) जाहिरातीचे महत्त्व
क) जाहिरात मसुद्याचे घटक
ड) जाहिरातीचे प्रकार



०५ तासिका

१० तासिका

- इ) प्रसारमाध्यमांतील जाहिरातलेखनाचे प्रात्यक्षिक -
१) वृत्तपत्रासाठी जाहिरातलेखन
२) आकाशवाणीसाठी जाहिरातलेखन
३) दूरचित्रवाणीसाठी जाहिरातलेखन

व शक्य त्याठिकाणी वृत्तपत्र, आकाशवाणी व दूरचित्रवाणी कार्यालयास भेट देऊन जाहिरात लेखनाचे
स्वरूप समजून घेणे.

संदर्भ ग्रंथ :

- १) साहित्यधारा भाग एक, संपा. डॉ.मा.मा.जाधव, कैलास पब्लिकेशन्स, औरंगाबाद.
२) व्यावहारिक मराठी, ल.रा.नसिराबादकर, फडके प्रकाशन, कोल्हापूर.
३) दृक-श्राव्य माध्यमांसाठी लेखनकौशल्य, य.च.म.मु.विद्यापीठ, नाशिक,
४) उपयोजित मराठी, डॉ.माधव बसवंते, मातोश्री हरणाई प्रकाशन, नांदेड.

मूल्यमापन - (ESE) -

२५ गुण

- प्र.१ दीर्घोत्तरी प्रश्न :** यात दोन प्रश्न विचारले जातील पैकी एक प्रश्न सोडवावा. १० गुण
- प्र.२ दीर्घोत्तरी प्रश्न :** यात दोन प्रश्न विचारले जातील पैकी एक प्रश्न सोडवा. १० गुण
- प्र.३ टिपा द्या :** यात दोन टिपा विचारण्यात येतील पैकी एक टीप सोडवावी. ०५ गुण
(टीप - अभ्यासक्रमातील सर्व घटकांवर प्रश्न विचारण्यात यावेत.)

मूल्यमापन - (CA) -

२५ गुण

- १) पत्रलेखन - (एका पत्रलेखनाचा नमुना तयार करून घेणे.)
- २) बातमीलेखन - (एखादा विषय देऊन त्यावर बातमी लिहून घेणे.)
- ३) जाहिरातलेखन - (कोणत्याही प्रसारमाध्यमांतील जाहिरातीचा एक नमुना तयार करून घेणे.)
(प्रत्येक विद्यार्थ्यांकडून वरील तीन घटकांपैकी एका घटकावर २५ गुणांचे प्रात्यक्षिक करून घेण्यात यावे.)
-

सत्र - चौथे

अभ्यास घटक : १) मुलाखत २) सर्जनशील लेखन ३) सूत्रसंचालन

उद्दिष्टे :

- १) मुलाखतीसंबंधी विस्तृत माहिती मिळेल व मुलाखतीला कसे सामोरे जावे हे कळेल.
- २) मुलाखतलेखनाचे तंत्र अवगत होईल आणि मुलाखती घेण्याचे कौशल्य विकसीत होईल.
- ३) विद्यार्थ्यांच्या अंगी असलेल्या सर्जनशील लेखनाचा विकास होईल.
- ४) सर्जनशील लेखन करणाऱ्या विद्यार्थ्यांचा शोध घेता येईल.
- ५) सूत्रसंचालनाचे कौशल्य अवगत होईल.

महत्त्व :

- १) मुलाखतकौशल्य आत्मसात केल्याने आत्मविश्वासाने मुलाखतील सामोरे जाऊन यशस्वी होता येईल.
- २) विविध क्षेत्रातील व्यक्तींची प्रभावीपणे मुलाखत घेता येईल.
- ३) सर्जनशील लेखनाच्या कौशल्यामुळे नवनिर्मितीक्षम लेखन करता येईल.
- ४) भावना व विचारांची अभिव्यक्ती होऊन त्यातून सर्जनशील लेखक, कलावंत निर्माण होतील.
- ५) सूत्रसंचालनाच्या अनेक संधी उपलब्ध होतील.

अभ्यासघटक :

१) मुलाखत -

१५ तासिका

अ) मुलाखत: संकल्पना व स्वरूप

ब) मुलाखतीचे उद्देश

क) मुलाखतीचे प्रकार

ड) मुलाखतीचे टप्पे

इ) मुलाखत देताना व मुलाखत घेताना घ्यावयाची काळजी

ई) मुलाखतीचे प्रात्यक्षिक -

०५ तासिका

१० तासिका

१) आदर्श व प्रयोगशील शिक्षक / शेतकरी / विद्यार्थी / समाजसेवक / डॉक्टर / खेळाडू / लेखक / सरपंच / वकील / चित्रकार / कलावंत इत्यादींची मुलाखत घेणे व मराठी विषयाच्या शिक्षक / प्राध्यापक, तसेच ग्रामसेवक / पोलीस / आरोग्य लिपीक / बँक लिपीक इत्यादी क्षेत्रांत मुलाखत देणे यासंबंधी तयारी करणे. (मुलाखतीची प्रात्यक्षिक प्रश्नावली किंवा अन्य माहिती संग्रहित ठेवणे)

२) **सर्जनशील लेखन -** **१५ तासिका**

- अ) साहित्य: संकल्पना व स्वरूप
ब) ललित व ललितेतर साहित्यातील भेद
क) साहित्याची निर्मितप्रक्रिया
- ०५ तासिका
- ड) सर्जनशील लेखन प्रात्यक्षिक - **१० तासिका**

यात कविता / कथा / एकांकिका / ललित / प्रवासवर्णन/ चरित्रलेखन आदी प्रकारांचे सर्जनशील लेखन करून घेणे.

(सर्जनात्मक लेखनाची हस्तलिखित / मुद्रित प्रत संग्रहित ठेवणे)

३) **सूत्रसंचालन -** **१५ तासिका**

- अ) सूत्रसंचालन : संकल्पना व स्वरूप
ब) सूत्रसंचालनाचे प्रकार
क) सूत्रसंचालनाची पूर्वतयारी
- ०५ तासिका
- ड) उत्कृष्ट सूत्रसंचालकाच्या अंगी असणारे गुण
- इ) सूत्रसंचालनाचे प्रात्यक्षिक - **१० तासिका**

१) मराठी वाङ्मय मंडळ उद्घाटन कार्यक्रमाचे सूत्रसंचालन २) कविसंमेलनाचे सूत्रसंचालन

३) विद्यार्थी निरोप समारंभ कार्यक्रमाचे सूत्रसंचालन ४) चर्चासत्राचे सूत्रसंचालन

५) गटचर्चेचे सूत्रसंचालन ६) अन्य काही कार्यक्रमांचे सूत्रसंचालन

(सूत्रसंचालनाची कार्यक्रमपत्रिका व अन्य माहिती संग्रहित ठेवणे)

संदर्भ ग्रंथ -

- १) व्यावहारिक मराठी - ल.रा. नसिराबादकर, फडके प्रकाशन कोल्हापूर.
- २) वृत्त संकलन, लेखन आणि संपादन, प्रा.देवेन्द्र विसपुते, प्रतीक्षा प्रकाशन, उदगीर
- ३) मुद्रित माध्यमांसाठी लेखन कौशल्य, श्री अरुण खेरे, य.च.म.मु. विद्यापीठ, नाशिक.
- ४) साहित्यधारा भाग -२, संपा. डॉ.मा.मा.जाधव, इसाप प्रकाशन, नांदेड.
- ५) साहित्यविचार, प्रा.अरविंद वामन कुलकर्णी, प्रतिमा प्रकाशन, पुणे.
- ६) काव्यशास्त्रप्रदीप, स.रा.गाडगीळ, व्हीनस प्रकाशन, पुणे.
- ७) साहित्यगाथा भाग -२, संपा. डॉ.मा.मा.जाधव, कैलाश पब्लिकेशन्स, औरंगाबाद.

मूल्यमापन (ESE) -

२५ गुण

प्र.१ दीर्घोत्तरी प्रश्न :यात दोन प्रश्न विचारले जातील पैकी एक प्रश्न सोडवावा.

१० गुण

प्र.२ दीर्घोत्तरी प्रश्न :यात दोन प्रश्न विचारले जातील पैकी एक प्रश्न सोडवा.

१० गुण

प्र.३ टीपा द्या : यात दोन टीपा विचारण्यात येतील पैकी एक टीप सोडवावी.

०५ गुण

(टीप - अभ्यासक्रमातील सर्व घटकांवर प्रश्न विचारण्यात यावेत.)

मूल्यमापन - (CA) -

२५ गुण

१) मुलाखत - (एका मुलाखतीची नमुना प्रश्नावली संहिता तयार करून घेणे.)

२) सर्जनशील लेखन - (एका साहित्यप्रकारात सर्जनात्मक लेखन करून घेणे.)

३) सूत्रसंचालन - (एखादा कार्यक्रम गृहीत धरून सूत्रसंचालन करावयास लावणे.)

(टीप - प्रत्येक विद्यार्थ्यांकडून वरील तीनपैकी एका घटकावर २५ गुणांचे प्रात्यक्षिक घेण्यात यावे.)

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड
पदवी द्वितीय वर्ष जून २०१७ पासून
मराठी (ऐच्छिक)

सत्र- तिसरे

अभ्यासपत्रिका- V

'आधुनिक वाङ्मयप्रकार : आत्मचरित्र'

आत्मचरित्र: संकल्पना व स्वरूप

नेमलेली साहित्यकृती : आपुलाची वाद आपणाशी

लेखक : चंद्रकांत वानखडे

अंतर्गत मूल्यांकन (CA) -

गुण ३५

१) या सत्रात प्रत्येकी दहा गुणांच्या दोन घटक चाचण्या	२० गुण
२) गृहपाठ (होम असाइनमेंट)	१० गुण
३) चर्चासत्र (सेमिनार)	०५ गुण
	३५ गुण

विद्यापीठ परीक्षा (ESE)

४० गुण

(दीर्घोत्तरी पर्यायी स्वरूपाचे ०३ प्रश्न - ३० गुण व वस्तुनिष्ठ बहुपर्यायी १० प्रश्न - १० गुण)

एकूण

७५ गुण

अभ्यासपत्रिका - VI

'आधुनिक वाङ्मयप्रकार : नाटक'

नाटक : स्वरूप आणि संकल्पना,

नाटकाचे प्रमुख प्रकार

नेमलेली कलाकृती - 'थांबा, रामराज्य येतंय' - प्रकाश त्रिभुवन

अंतर्गत मूल्यांकन (CA) -

३५ गुण

१) या सत्रात प्रत्येकी १० गुणांच्या दोन घटक चाचण्या -	२० गुण
२) गृहपाठ (असाइनमेंट) -	१० गुण
३) चर्चासत्र (सेमिनार) -	०५ गुण
	३५ गुण

विद्यापीठ परीक्षा (ESE)

४० गुण

(दीर्घोत्तरी पर्यायी स्वरूपाचे ०३ प्रश्न - ३० गुण व वस्तुनिष्ठ बहुपर्यायी १० प्रश्न - १० गुण)

एकूण

७५ गुण

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड
पदवी द्वितीय वर्ष जून २०१७ पासून
मराठी (ऐच्छिक)

सत्र- चौथे

अभ्यासपत्रिका क्रमांक - VII

'आधुनिक वाङ्मयप्रकार : कादंबरी'

कादंबरी : संकल्पना व स्वरूप, कादंबरीचे प्रमुख प्रकार

नेमलेली कलाकृती - 'कोयता' - सरदार जाधव

अंतर्गत मूल्यांकन (CA) -

१) या सत्रात प्रत्येकी दहा गुणांच्या दोन घटक चाचण्या	२० गुण
२) गृहपाठ (होम असाइनमेंट)	१० गुण
३) चर्चासत्र (सेमिनार)	०५ गुण
	३५ गुण

विद्यापीठ परीक्षा (ESE) ४० गुण

(दीर्घोत्तरी पर्यायी स्वरूपाचे ०३ प्रश्न - ३० गुण व वस्तुनिष्ठ बहुपर्यायी १० प्रश्न - १० गुण)

एकूण ७५ गुण

अभ्यासपत्रिका - VIII

'मध्ययुगीन गद्य पद्यांचा अभ्यास'

नेमलेले संपादित पुस्तक - 'साहित्यसंपदा'

अंतर्गत मूल्यांकन (CA) -

१) या सत्रात प्रत्येकी १० गुणांच्या दोन घटक चाचण्या -	२० गुण
२) गृहपाठ (असाइनमेंट) -	१० गुण
३) चर्चासत्र (सेमिनार) -	०५ गुण
	३५ गुण

विद्यापीठ परीक्षा (ESE) ४० गुण

(दीर्घोत्तरी पर्यायी स्वरूपाचे ०३ प्रश्न - ३० गुण व वस्तुनिष्ठ बहुपर्यायी १० प्रश्न - १० गुण)

एकूण ७५ गुण

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

पदवी द्वितीय वर्ष जून २०१७ पासून

मराठी - द्वितीय भाषा (S.L.)

सत्र- तिसरे

अभ्यासपत्रिका- III

साहित्यधारा भाग - १

अंतर्गत मूल्यांकन (CA) -	३५ गुण
१) या सत्रात प्रत्येकी १० गुणांच्या दोन घटक चाचण्या -	२० गुण
२) गृहपाठ (असाइनमेंट) -	१० गुण
३) चर्चासत्र (सेमिनार) -	०५ गुण
	<u>३५ गुण</u>
विद्यापीठ परीक्षा (ESE)	४० गुण
(दीर्घोत्तरी पर्यायी स्वरूपाचे ०३ प्रश्न - ३० गुण व वस्तुनिष्ठ बहुपर्यायी १० प्रश्न - १० गुण)	
एकूण	७५ गुण

मराठी - द्वितीय भाषा (S.L.)

सत्र- चौथे

अभ्यासपत्रिका- IV

साहित्यधारा भाग - २

अंतर्गत मूल्यांकन (CA) -	३५ गुण
१) या सत्रात प्रत्येकी १० गुणांच्या दोन घटक चाचण्या -	२० गुण
२) गृहपाठ (असाइनमेंट) -	१० गुण
३) चर्चासत्र (सेमिनार) -	०५ गुण
	<u>३५ गुण</u>
विद्यापीठ परीक्षा (ESE)	४० गुण
(दीर्घोत्तरी पर्यायी स्वरूपाचे ०३ प्रश्न - ३० गुण व वस्तुनिष्ठ बहुपर्यायी १० प्रश्न - १० गुण)	
एकूण	७५ गुण



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड— ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

Established on 17th September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



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नुसारचे अभ्यासक्रम शैक्षणिक वर्ष
२०१७-१८ पासून लागू करण्याबाबत.

परिपत्रक

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ३ मे २०१७ रोजी संपन्न झालेल्या ३८व्या मा. विद्या परिषद बैठकीतील विषय क्र.१२४/३८-२०१७ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील द्वितीय वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१७-१८ पासून लागू करण्यात येत आहेत.

- १) बी.ए./बी.कॉम./बी.एस्सी.—इंग्रजी (अनिवार्य, द्वितीय भाषा अतिरिक्त, ऐच्छिक)—द्वितीय वर्ष
- २) बी.ए.—हिंदी (ऐच्छिक)—द्वितीय वर्ष
- ३) बी.ए./बी.कॉम./बी.एस्सी.—कन्नड (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ४) बी.ए./बी.कॉम./बी.एस्सी.—मराठी (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ५) बी.ए./बी.कॉम./बी.एस्सी.—पाली (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ६) बी.ए./बी.कॉम./बी.एस्सी.—संस्कृत (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ७) बी.ए./बी.कॉम./बी.एस्सी./बी.एफ.ए./बी.एस.डब्ल्यू—उर्दू (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ८) बी.ए.—फॅशन डिझाईन—द्वितीय वर्ष
- ९) बी.ए.—अर्थशास्त्र—द्वितीय वर्ष
- १०) बी.ए.—भूगोल—द्वितीय वर्ष
- ११) बी.ए.—इतिहास—द्वितीय वर्ष
- १२) बी.ए.—मानव हक्क—द्वितीय वर्ष
- १३) बी.ए.—ग्रंथालय व माहितीशास्त्र—द्वितीय वर्ष
- १४) बी.ए.—जनसंवाद व पत्रकारिता—द्वितीय वर्ष
- १५) बी.ए.—सैनिकशास्त्र—द्वितीय वर्ष
- १६) बी.ए.—तत्त्वज्ञान—द्वितीय वर्ष
- १७) बी.ए.—राज्यशास्त्र—द्वितीय वर्ष
- १८) बी.ए.—मानसशास्त्र—द्वितीय वर्ष
- १९) बी.ए.—लोकप्रशासन—द्वितीय वर्ष
- २०) बी.ए.—समाजशास्त्र—द्वितीय वर्ष

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‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक—०१/परिपत्रक/पदवी—सीबीसीएस अभ्यासक्रम/
२०१६-१७/८४

दिनांक : ०७.०६.२०१७.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, यू.जी.सी. कक्ष, प्रस्तुत विद्यापीठ.

स्वाक्षरित / —

उपकुलसचिव

शैक्षणिक (१—अभ्यासमंडळ) विभाग



**SWAMI RAMANAND TEERTH
MARATHAWADA UNIVERSITY, NANDED**

SYLLABUS

POLITICAL SCIENCE

**SEMESTER PATTERN
(CHOICE BASE CREDIT SYSTEM)**

B.A. SECOND YEAR

[With effect from June 2017]

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

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Faculty of social sciences
B.A. second year syllabus**

Semester pattern with effect from June - 2017

SUBJECT: - POLITICAL SCIENCE

semester	Core course	Paper no.	Name of paper	Lectures per week	Total No. of lectures	CA	ESE	Total marks	credit
Semester - III	POL. SCI.	v	Indian Constitution	04	55	35	40	75	3
	POL. SCI.	VI	International relations	04	55	35	40	75	3
	SEC	I	Election management	03	45	25	25	50	2
		Total		11	155	95	105	200	8
Semester - IV	POL. SCI.	VII	Indian Government and politics	04	55	35	40	75	3
	POL. SCI.	VIII	International Organizations & Issues	04	55	35	40	75	3
	SEC	II	Political Journalism	03	45	25	25	50	2
		Total		11	155	95	105	200	8
		Grand Total	Semester III + IV	22	310	190	210	400	16

SEC = Skill Enhancement Course

SWAMI RAMANAND TEERTH MARATAWADA UNIVERSITY, NANDED
CBCS PAPER PATTERN IN THE SUBJECT OF
POLITICAL SCIENCE
B.A. SECOND YEAR
With Effect from June 2017.

SEMESTER - III

Paper No.	Title of paper	Continuous Assessment (C.A.)	End of Semester Examination (E.S.E.)
V	Indian Constitution	35	40
VI	International Relations	35	40
SEC - I	Election Management	25	25

SEMESTER - IV

Paper No.	Title of paper	Continuous Assessment (C.A.)	End of Semester Examination (E.S.E.)
VII	Indian government & politics	35	40
VIII	International Organizations & Issues	35	40
SEC - II	Political Journalism	25	25

Core Course:

- 1) **Continuous Assessment (C. A.):** 35 Marks (Two class test each for 10 marks + one home assignment for 15 marks)
- 2) **End of Semester Examination (E.S.E.):** 40 Marks

SEC: Skill Enhancement Course

- 1) **Continuous Assessment (C. A.):** 25 Marks (To submit one report from the concerned syllabus for 20 marks & report presentation or interview for 05 marks)
- 2) **End of Semester Examination (E.S.E.):** 25 Marks.

End of Semester Examination (ESE)
Question Paper Pattern
With Effect from June 2017.

A) Core Course (CCPOL):

- | | | |
|------|---|----------|
| * | MCQ (Multiple Choice Questions)
10 questions, each for one mark. | 10 Marks |
| Q. 1 | Descriptive question
OR
Descriptive question | 10 Marks |
| Q. 2 | Descriptive question
OR
Descriptive question | 10 Marks |
| Q. 3 | Write short notes on (any two).
i)
ii)
iii)
iv) | 10 Marks |

B) Skill Enhancement Course (SEC):

- | | | |
|------|--|----------|
| Q. 1 | Descriptive question
OR
Descriptive question | 10 Marks |
| Q. 2 | Descriptive question
OR
Descriptive question | 10 Marks |
| Q. 3 | Write short notes on (any one).
i)
ii)
iii) | 05 Marks |

**SWAMI RAMANAND TEERTH MARATAWADA
UNIVERSITY, NANDED**

POLITICAL SCIENCE

Effective from June 2017

B.A. Second Year (CBCS Pattern)

Semester - III

INDIAN CONSTITUTION - Paper V

Credits – 03

Periods – 55

Marks 75

Objectives of Course:

This course acquaints students with the constitution, design of state structure, institutions and their actual working over time. The Indian constitution accommodates conflicting impulses of liberty and justice, territorial decentralization and a strong union for instance within itself. The course traces the embodiment some of these conflicts in constitutional provisions and shows how thus have played out in Political practices. In further, encourages a study of state institution in their mutual interaction with the larger extra constitutional environment.

Course Content:

	Periods	Marks
1) Indian Constitution	-12-	-15-
1.1 The making of Indian Constitution		
1.2 Sources of Indian Constitution		
1.3 Preamble of Indian Constitution		
1.4 Features of Indian Constitution		
2) Constitutional Provisions	-17-	-25-
2.1 Fundamental Rights		
2.2 Fundamental Duties		
2.3 Directive Principles of State Policy		

3) Union Government	-15-	-20-
3.1 Legislature - structure, Powers & Functions Loksabha , Rajyasabha		
3.2 Executive - structure, Powers & Functions President, Vice President, Prime minister, Cabinet		
4) Supreme Court	-11-	-15-
4.1 Composition, Powers & Functions		
4.2 Independence of Judiciary		
4.3 Judicial Review		
4.4 Judicial Activism		

Readings (English, Hindi & Marathi):

1. Austin, Granville, The Indian Constitution, Corner Stone of a Nation Oxford Clarendon, 1996.
2. Basu, D.D., Introduction to the Constitution of India, 2002.
3. Johari, J.C., Indian Political System, Anmol Publication Pvt. Ltd., Delhi, 1996.
4. Pylee M. V., Constitutional Government in India, S. Chand and Co. Ltd., 1984.
5. Yerande V. L., Indian Government & Politics, Chandralok Prakashan, Kanpur, 2012.
६. काश्यप सुभाष, (२००५), हमारा संविधान, नॅशनल बुक ट्रस्ट , इंडीया, नई दिल्ली.
७. महला अशोक और पिकॉक, भारतीय राज्यव्यवस्था, अरिहंत पब्लिकेशन हाऊस, जयपूर.
८. सईद एस. एम., (२००३), भारतीय राजनीतिक व्यवस्था, सुलभ प्रकाशन, जयपूर.
९. जैन पुखराज और फडिया बी.एल., (२००८), भारतीय शासन एवं राजनीति, साहित्य भवन पब्लिकेशन्स, आगरा, १५ वा संस्करण.

१०. भोळे भा.ल., (जून २००३), भारतीय गणराज्याचे शासन आणि राजकारण, पिंपळापुरे अँड कं. पब्लिशर्स, नागपूर.
११. पळशीकर सुहास, देश-प्रदेश, युनिक अकॅडमी, पुणे.
१२. पवार प्रकाश, भारतीय शासन आणि नेतृत्वाची वाटचाल, डायमंड पब्लिकेशन, पुणे.
१३. पाटील विलास, भारतीय संविधान, के.सागर पब्लिकेशन, पुणे.
१४. पाटील बी.बी. व उर्मिला चव्हाण, भारतीय शासन आणि राजकारण, फडके प्रकाशन, कोल्हापूर.
१५. शिंदे सुनिल व ढवळे जयराम, भारताचे शासन आणि राजकारण, एज्युकेशनल पब्लिकेशन्स अँड डिस्ट्रीब्यूटर्स, औरंगाबाद.
१६. जोशी सुधाकर, भारतीय शासन आणि राजकारण, विद्या बुक पब्लिशर्स, औरंगाबाद.
१७. गव्हाणे अजय, (२०१४), संसदीय लोकशाहीची आयुधे, क्रिएटिव्ह पब्लिकेशन्स, नांदेड.
१८. मेहेत्रे डि. एच. व सोलापूरे राजशेखर, भारतीय शासन आणि राजकारण, अरुणा प्रकाशन, लातूर.
१९. कारेकर मंजिरी व सुवर्णा बेनके, भारताचे शासन आणि राजकारण, पिअरसन पब्लिकेशन, नवी दिल्ली.
२०. घांग्रेकर चिं. ग., (१९९७), भारतीय राज्यघटना : स्वरूप आणि राजकारण, श्रीमंगेश प्रकाशन , नागपूर
२१. जाधव तुकाराम व महेश शिरपूरकर, (२०११), भारतीय राज्यघटना व घटनात्मक प्रक्रीया, युनिक अकॅडमी, पुणे.

**SWAMI RAMANAND TEERTH MARATAWADA
UNIVERSITY, NANDED**

POLITICAL SCIENCE

Effective from June 2017

B.A. Second Year (CBCS Pattern)

Semester - III

INTERNATIONAL RELATIONS - Paper VI

Credits – 03

Periods - 55

Marks

75

Objectives of Course:

International Relations is the study of interactions. Students will acquire knowledge of the basic structure, processes & trends of International Politics. To understand the conceptual framework needed to systematic analysis of World Politics, understand and be capable of evaluating the validity of constructivist approach, To understand theories & concepts of International Relations, International Organization and non government organizations, Role of UN, International Law and contemporary critical issues in World politics, study of International Relations and develop the ability to think critically about current issues and the future of the world order.

Course Content:

Periods

Marks

1) International Relations

-15-

-20-

- 1.1 Meaning & Definition
- 1.2 Nature
- 1.3 Scope and Significance

2) Approaches to the study of International Relations

-17-

-25-

- 2.1 Idealistic Approach
- 2.2 Realistic Approach
- 2.3 Decision Making Approach

3) National Power

-11-

-15-

- 3.1 Meaning & Definition
- 3.2 Elements
- 3.3 Limitations

4) Balance of Power

-12-

-15-

- 4.1 Meaning & Definition
- 4.2 Techniques
- 4.3 Types
- 4.4 Significance

Readings (English, Hindi & Marathi):

1. Hans. J. Morgenthau, *Politics Among Nations*, 6th Edition, New York, 1985.
2. R. Axelrod, *The Evolution of Co-operation*, New York, Basic Books, 1984.
3. D.A. Baldwin (ed.), *Neo-realism and Neo-liberalism*, New York, Columbia University Press, 1993.
4. C. Brown, *International Relations Theory*, London, Harvester Wheatsheaf, 1975.
5. R.E. Osgood and R.W. Tucker, *Force, Order and Justice*, Baltimore, Johns Hopkins Press, 1967.
6. Ostrom, *Governing the Commons: The Evolution of Institutions for Collective Action*, Cambridge, Cambridge University Press, 1990.
7. नुरुल्ला बी.सी., आंतरराष्ट्रीय राजनीति, आर्जुन पब्लिशिंग हाऊस, नई दिल्ली.
8. घई यु.आर., आंतरराष्ट्रीय राजनीति, न्यु अकॅडमीक पब्लिशिंग कं., जालंधर.
9. सिंहल एस.सी., आंतरराष्ट्रीय संबंध, लक्ष्मीनारायण अग्रवाल पब्लिकेशन, नई दिल्ली.
10. रायपूरकर वसंत, (१९९४), आंतरराष्ट्रीय संबंध, मंगेश प्रकाशन, नागपूर.
11. देवळाणकर शैलेंद्र, (२०१६), आंतरराष्ट्रीय संबंध, विद्या बुक पब्लिशर्स, औरंगाबाद.
12. वराडकर रघुनंदन, (२०१४), आंतरराष्ट्रीय संबंध आणि राजकारण, विद्या प्रकाशन, नागपूर.
13. अमृतकर प्रशांत, (२००४), आंतरराष्ट्रीय संबंध, चिन्मय प्रकाशन, औरंगाबाद.
14. जोशी टि.ए., (१९९४), आंतरराष्ट्रीय संबंधाची ओळख, प्रकाशक - अंकिता काम्युटर्स, नांदेड.
15. लोटे रा.ज., (१९९५), आंतरराष्ट्रीय संबंध, पिंपळापुरे अॅन्ड कं. पब्लिशर्स, नागपूर.
16. जोरगुलवार भुषण, (१९९८), आंतरराष्ट्रीय संबंध, प्रकाशक-सौ.सुनिता कुलकर्णी, अहमदपूर.
17. शिंदे सुनिल व संतोष कोल्हे, आंतरराष्ट्रीय संबंध, एज्युकेशनल पब्लिशर्स अॅन्ड डिस्ट्रीब्युटर्स, औरंगाबाद.
18. आघाव विलास व देविदास नरवाडे, (२०१४), आंतरराष्ट्रीय संबंध, कैलाश पब्लिकेशन, औरंगाबाद.
19. कुलकर्णी सुधाकर, (२००५), आंतरराष्ट्रीय संबंध: सिध्दांत आणि राजकारण, अरुणा प्रकाशन, लातूर.
20. कुलकर्णी बी.वाय., आंतरराष्ट्रीय संबंध, अरुणा प्रकाशन, लातूर.

**SWAMI RAMANAND TEERTH MARATAWADA
UNIVERSITY, NANDED**

**POLITICAL SCIENCE
Effective from June 2017
B.A. Second Year (CBCS Pattern)
Semester - III
SEC - I - Election management**

Credits – 02

Periods - 45

Marks- 50

Objectives of Course:

This course will give introduction to the students of the debates, principles & practices of Election Management. Election, electoral, voting behavior, political participation, public opinion of the context of Democracies with special reference to India. It will familiarize the students with how to conceptualize & measures of election management using quantitative methods, with particular attending being paid to development basic skills pertaining to the collection, analyze and utilization of data.

Course Content :

- | | | |
|---|--------------|-------------|
| 1) Election Management- | -15- | -20 |
| 1.1 Meaning & Definition of Election Management | | |
| 1.2 Election Commission: Structure, Power & Function | | |
| 1.3 Code of conduct for Election | | |
| 1.4 Electoral Reform | | |
|
 | | |
| 2) Election Process - | -10 - | -10- |
| 2.1 Voter Registration System | | |
| 2.2 Documental Proof for Voting | | |
| 2.3 Process of Nomination of Candidates in Election | | |
| 2.4 Terms & Conditions for Recognition to Political Parties | | |
|
 | | |
| 3) Election Campaign & Methods - | -10 - | -10- |
| 3.1 Direct Voting & Indirect Voting | | |
| 3.2 Management of Election Propaganda: Campaign, Use of Information Technology in Election, Visit to Voters | | |
| 3.3 Management & Structure of Pooling Booth | | |
| 3.4 Voter Awareness Campaign | | |

4) Election & Political Participation -

-10-

-10-

- 4.1 Methods of Political Participation
- 4.2 Affected Factors of Voter Behavior
- 4.3 Voter Apathy – Nature, Causes & Remedies
- 4.4 Obstacles of Political Participation

Readings (English, Hindi & Marathi):

1. Bhambhri Chander Prakash, (2007), Democracy in India, National Book Trust, New Delhi, India.
2. Sharma K.N., Political Psychology, Print Well Publication, Jaipur.
3. वर्मा ज्योती, (२००७), सामाजिक जनांकिके, डिस्कवरी पब्लिसिंग हाऊस, नई दिल्ली.
4. बुथ लेवल अधिकारीयोंके लिए हॅन्डबुक, (२०११) भारत निर्वाचन आयोग, निर्वाचन सदन, अशोक रोड नई दिल्ली.
5. वाधवा शालिनी, (२००३), भारतीय राजनीतिशास्त्र का विकास, अर्जुन पब्लिशिंग हाऊस, नई दिल्ली.
६. भोळे भा.ल., भारतीय गणराज्याचे शासन आणि राजकारण, पिंपळापुरे प्रकाशन, नागपूर.
७. पटवे दिपक, (२०१२), चला राजकारणात, राजहंस प्रकाशन, पुणे.
८. जाधव तुकाराम व शिरपूरकर महेश, भारतीय संविधान व भारतीय राजकारण, युनिक अकॅडमी, पुणे.
९. जोशी सुधाकर, भारतीय शासन आणि राजकारण, विद्या बुक्स पब्लिशर्स, औरंगाबाद.
१०. व्होरा राजेंद्र व पळशिकर सुहास (संपादक), लेले चित्रा (अनुवाद), भारतीय लोकशाही : अर्थ आणि व्यवहार, डायमंड पब्लिकेशन्स, पुणे, प्रथम मराठी आवृत्ती २०१०.
११. यादव योगेंद्र, पळशीकर सुहास व डिसुजा पिटर, (२०११), लोकशाही जिंदाबाद, समकालिन प्रकाशन, पुणे.
१२. निकाळजे तुषार, (२०१६), भारतीय निवडणूक प्रणाली : स्थित्यंतरे व आव्हाने, हरिती पब्लिकेशन्स, पुणे.
१३. बिथॅम डेव्हिड व केव्हीन बॉयल, मेहंदळे लिना (संपादक), (२००९), लोकशाही : ८० प्रश्न आणि उत्तरे, नॅशनल बुक ट्रस्ट, नवी दिल्ली, इंडिया.
१४. एरंडे वि.ल., (२०००), भारतीय लोकशाही : अपेक्षा आणि वास्तव, निर्मल प्रकाशन, नांदेड.
१५. शिंदे सुनिल व बालासाहेब किलचे, (२०१५), महाराष्ट्रातील राजकीय पक्षांचे सत्तापरिवर्तन: २०१४, साधना पब्लिकेशन्स, परभणी

**SWAMI RAMANAND TEERTH MARATAWADA
UNIVERSITY, NANDED**

POLITICAL SCIENCE

Effective from June 2017

B.A. Second Year (CBCS Pattern)

Semester - IV

INDIAN GOVERNMENT AND POLITICS - Paper VII

Credits – 03

Periods – 55

Marks 75

Course Content :

1) Center State Relations	-11-	-25-
2.1 Legislative		
2.2 Administrative		
2.3 Financial – Role of Niti Aayog		
2) Constitutional Authorities: Structure & Functions	-17-	-25-
2.1 Election Commissioner of India		
2.2 Attorney General of India		
2.3 Comptroller & Auditor General of India		
3) Political Parties in India	-15 -	-20-
3.1 Features of Political Party system in India		
3.2 Changing Nature of Political Party System		
3.3 Major Political Parties in India – Indian National Congress, Bhartiya Janata Party, Communist Party India, Communist Party India (M.)		
4) Challenges Before Indian Politics	-12-	15-
4.1 Corruption		
4.2 Casteism		
4.3 Communalism		
4.4 Regionalism		

Readings (English, Hindi & Marathi):

1. Kothari Rajni, (2004), Caste in India, Orient Longman, Hyderabad
2. Austin, Granville, The Indian Constitution, Corner Stone of a Nation Oxford Clarendon, 1996.
3. Basu, D.D., Introduction to the Constitution of India, 2002.
4. Johari, J.C., Indian Political System, Anmol Publication Pvt. Ltd., Delhi, 1996.
5. Pylee M. V., Constitutional Government in India, S. Chand and Co. Ltd., 1984.
6. Yerande V. L., Indian Government & Politics, Chandralok Prakashan, Kanpur, 2012.
७. महला अशोक और पिकॉक, भारतीय राज्यव्यवस्था, अरिहंत पब्लिकेशन हाऊस, जयपूर.
८. काश्यप सुभाष (१९९८), भारतीय राजनीति और संसद: विपक्ष की भूमिका, राजकमल प्रकाशन, नई दिल्ली.
९. बाबेल बसंतिलाल, (१९९८), संसदीय प्रजातंत्र में विपक्ष की भूमिका, राजस्थान हिंदी ग्रंथ अकॅडमी, जयपूर
१०. जैन पुखराज और फडिया बी.एल., (२००८), भारतीय शासन एवं राजनीति, साहित्य भवन पब्लिकेशन्स, आगरा, १५ वा संस्करण.
११. भोळे भा.ल., (जून २००३), भारतीय गणराज्याचे शासन आणि राजकारण, पिंपळापुरे अॅन्ड कं. पब्लिशर्स, नागपूर.
१२. पळशीकर सुहास, देश-प्रदेश, युनिक अकॅडमी, पुणे.
१३. पवार प्रकाश, भारतीय शासन आणि नेतृत्वाची वाटचाल, डायमंड पब्लिकेशन, पुणे.
१४. पाटील विलास, भारतीय संविधान, के.सागर पब्लिकेशन, पुणे.
१५. पाटील बी.बी. व उर्मिला चव्हाण, भारतीय शासन आणि राजकारण, फडके प्रकाशन, कोल्हापूर.
१६. शिंदे सुनिल व ढवळे जयराम, भारताचे शासन आणि राजकारण, एज्युकेशनल पब्लिकेशन्स अॅन्ड डिस्ट्रीब्यूटर्स, औरंगाबाद.
१७. जोशी सुधाकर, भारतीय शासन आणि राजकारण, विद्या बुक पब्लिशर्स, औरंगाबाद.
१८. गव्हाणे अजय (२०१४), संसदीय लोकशाहीचे आयुध, क्रिएटिव्ह पब्लिकेशन्स, नांदेड.
१९. मेहेत्रे डि.एच. व सोलापूर राजशेखर, भारतीय शासन आणि राजकारण, अरुणा प्रकाशन, लातूर.
२०. कारेकर मंजरी व सुवर्णा बेनके, भारताचे शासन आणि राजकारण, पिअरसन पब्लिकेशन, नवी दिल्ली.
२१. जाधव तुकाराम व महेश शिरपूरकर, (२०११), भारतीय राज्यघटना व घटनात्मक प्रक्रिया, युनिक अकॅडमी, पुणे.
२२. शिंदे सुनिल, (संपादक), (२०१३), संसदीय लोकशाहीतील विरोधी पक्ष : स्थान व भूमिका, अरुणा प्रकाशन, लातूर.

**SWAMI RAMANAND TEERTH MARATAWADA
UNIVERSITY, NANDED**

POLITICAL SCIENCE

Effective from June 2017

B.A. Second Year (CBCS Pattern)

Semester - IV

INTERNATIONAL ORGANISATION & ISSUES - Paper VIII

Credits – 03

Periods - 55

Marks 75

Course Content:

- | | | |
|--|-------------|-------------|
| 1) United Nations | -17- | -25- |
| 1.1 Origin & Objectives | | |
| 1.2 Structure & Functions -
General Assembly, Security Council, International Court,
Secretarial | | |
| 1.3 Success, Failures & Remedies | | |
|
 | | |
| 2) Regional Organizations: Structure, Objectives & Functions | -12- | -15- |
| 2.1 SAARC | | |
| 2.2 ASEAN | | |
| 2.3 OPEC | | |
| 2.4 BRICS | | |
|
 | | |
| 3) Arms Race, Arms Control and Disarmament | -15- | -20- |
| 3.1 Arms Race
Meaning, Definition, Reasons & Effects | | |
| 3.2 Arms Control
Meaning, Definition, Importance, Efforts: NPT, CTBT | | |
| 3.3 Disarmament
Meaning, Definition, Importance | | |
|
 | | |
| 4) Major Issues in International Politics | -11- | -15- |
| 4.1 Terrorism - Nature, Reasons & Remedies | | |
| 4.2 Human Rights – Nature & Problems | | |
| 4.3 Feminism – Nature & Challenges | | |

Readings (English, Hindi & Marathi):

1. Hans. J. Morgenthau, Politics Among Nations, 6th Edition, New York, 1985.
2. R. Axelrod, The Evolution of Co-operation, New York, Basic Books, 1984.
3. D.A. Baldwin (ed.), Neo-realism and Neo-liberalism, New York, Columbia University Press, 1993.
4. C. Brown, *International Relations Theory*, London, Harvester Wheatsheaf, 1975.
5. R.E. Osgood and R.W. Tucker, *Force, Order and Justice*, Baltimore, Johns Hopkins Press, 1967.
6. Ostrom, *Governing the Commons: The Evolution of Institutions for Collective Action*, Cambridge, Cambridge University Press, 1990.
7. नुरुल्ला बी.सी., आंतरराष्ट्रीय राजनीति, आर्जुन पब्लिशिंग हाऊस, नई दिल्ली.
8. घई यु.आर., आंतरराष्ट्रीय राजनीति, न्यु अकॅडमीक पब्लिशिंग कं., जालंधर, (पंजाब).
9. सिंहल एस.सी., आंतरराष्ट्रीय संबंध, लक्ष्मीनारायण अग्रवाल पब्लिकेशन, नई दिल्ली.
10. रायपूरकर वसंत, (१९९४), आंतरराष्ट्रीय संबंध, मंगेश प्रकाशन, नागपूर.
11. देवळाणकर शैलेंद्र, (२०१६), आंतरराष्ट्रीय संबंध, विद्या बुक पब्लिशर्स, औरंगाबाद.
12. वराडकर रघुनंदन, (२०१४), आंतरराष्ट्रीय संबंध आणि राजकारण, विद्या प्रकाशन, नागपूर.
13. अमृतकर प्रशांत, (२००४), आंतरराष्ट्रीय संबंध, चिन्मय प्रकाशन, औरंगाबाद.
14. जोशी टि.ए., (१९९४), आंतरराष्ट्रीय संबंधाची ओळख, प्रकाशक - अंकिता काम्युटर्स, नांदेड.
15. लोटे रा.ज., (१९९५), आंतरराष्ट्रीय संबंध, पिंपळापुरे अॅन्ड कं. पब्लिशर्स, नागपूर.
16. जोरगुलवार भुषण, (१९९८), आंतरराष्ट्रीय संबंध, प्रकाशक-सौ.सुनिता कुलकर्णी, अहमदपूर.
17. शिंदे सुनिल व संतोष कोल्हे, आंतरराष्ट्रीय संबंध, एज्युकेशनल पब्लिशर्स अॅन्ड डिस्ट्रीब्युटर्स, औरंगाबाद.
18. आघाव विलास व देविदास नरवाडे, (२०१४), आंतरराष्ट्रीय संबंध, कैलाश पब्लिकेशन, औरंगाबाद.
19. कुलकर्णी सुधाकर, (२००५), आंतरराष्ट्रीय संबंध: सिध्दांत आणि राजकारण, अरुणा प्रकाशन, लातूर.
20. कुलकर्णी बी.वाय., आंतरराष्ट्रीय संबंध, अरुणा प्रकाशन, लातूर.

**SWAMI RAMANAND TEERTH MARATAWADA
UNIVERSITY, NANDED
POLITICAL SCIENCE
Effective from June 2017
B.A. Second Year (CBCS Pattern)
Semester - IV
SEC II - Political Journalism**

Credit -2

periods -45

marks -50

Objectives of Course:

This course will give introduction to the students of political journalism aims to provide voters with the information to formulate their own opinion and participate in community, local to global matter that will effect then. Political journalism is provided through different mediums in print, broadcast, online reporting, instant coverage of campaign, politics, event news, government status, election updates etc.

Course Content:

- | | | |
|--|--------------|-------------|
| 1) Political Journalism | -20 - | -20- |
| 1.1 Political Journalism: Meaning, Definition, Nature, Scope & Significance | | |
| 1.2 Sources of Political Journalism | | |
| 1.3 Code of Conduct for Political Journalist | | |
| 2) Methods of political journalism | - 10- | -10- |
| 2.1 Commentary of Legislation | | |
| 2.2 Political Interview | | |
| 2.3 Press Conference | | |
| 2.4 Political Analysis | | |
| 2.5 Reporting of Political Events | | |
| 3) Politics and media | -08- | -11- |
| 3.1 Influence of Media on Decision Making Process | | |
| 3.2 Role of Media in Leadership Development | | |
| 3.3 Role of Media in Awareness | | |

4) Challenges before Political Journalism -07-

-09-

- 4.1 Party Spirited News Papers
- 4.2 Commercialization of Journalism
- 4.3 Increases of Paid News
- 4.4 Violation of Code of Conduct
- 4.5 Fear of Political Journalism

Readings (English, Hindi & Marathi):

1. Carey Jams W. & Cates A. (2004), Journalism, Libraries Unlimited, West Port, London.
2. Vir Bala & Agrawal, Essentials of Practical Journalism, Concept Publication Camp, New Delhi.
3. Roy Barun, (2001), Beginner's Guide to Journalism, Pustak Mahal, Mumbai.
4. R. Ramkrishnan, (1994), Press & Politics in an Indian State, Delta Publishing House, Hyderabad.
5. Kamath M.V., (2002), Professional Journalism, Vikas Publishing House Pvt. Ltd., New Delhi.
6. चतुर्वेदी एन.पी., (२००५), जनसंचार एवं पत्रकारिता, पोईटर पब्लिशर्स, जयपूर.
7. लेले रा.के., (२००४), मराठी वृत्तपत्रांचा इतिहास, कॉन्टीनेंटल प्रकाशन, पुणे-३०.
8. कुलकर्णी प्रकाश, (१२ सप्टेंबर १९८९), माध्यम, श्रीविद्या प्रकाशन, पुणे-३०.
9. खांबटे सतिश व योगेंद्र ठाकुर, (१३ ऑगस्ट २००६), पत्रकारिता एक आव्हान, आमोद प्रकाशन, मुंबई.
10. कोळ्मकर अनंत, (२००६), बातमीदाराचा जाहिरनामा, हिमालया पब्लिशिंग हाऊस, मुंबई.
11. सोनकांबळे कविता, (२०१६), मीडिया आणि राजकारण, निर्मल प्रकाशन, नांदेड.



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड— ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

Established on 17th September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



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मानवविज्ञान विद्याशाखेतील पदवी
स्तरावरील द्वितीय वर्षाचे CBCS Pattern
नुसारचे अभ्यासक्रम शैक्षणिक वर्ष
२०१७-१८ पासून लागू करण्याबाबत.

परिपत्रक

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ३ मे २०१७ रोजी संपन्न झालेल्या ३८व्या मा. विद्या परिषद बैठकीतील विषय क्र.१२४/३८-२०१७ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील द्वितीय वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१७-१८ पासून लागू करण्यात येत आहेत.

- १) बी.ए./बी.कॉम./बी.एस्सी.—इंग्रजी (अनिवार्य, द्वितीय भाषा अतिरिक्त, ऐच्छिक)—द्वितीय वर्ष
- २) बी.ए.—हिंदी (ऐच्छिक)—द्वितीय वर्ष
- ३) बी.ए./बी.कॉम./बी.एस्सी.—कन्नड (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ४) बी.ए./बी.कॉम./बी.एस्सी.—मराठी (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ५) बी.ए./बी.कॉम./बी.एस्सी.—पाली (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ६) बी.ए./बी.कॉम./बी.एस्सी.—संस्कृत (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ७) बी.ए./बी.कॉम./बी.एस्सी./बी.एफ.ए./बी.एस.डब्ल्यू—उर्दू (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ८) बी.ए.—फॅशन डिझाईन—द्वितीय वर्ष
- ९) बी.ए.—अर्थशास्त्र—द्वितीय वर्ष
- १०) बी.ए.—भूगोल—द्वितीय वर्ष
- ११) बी.ए.—इतिहास—द्वितीय वर्ष
- १२) बी.ए.—मानव हक्क—द्वितीय वर्ष
- १३) बी.ए.—ग्रंथालय व माहितीशास्त्र—द्वितीय वर्ष
- १४) बी.ए.—जनसंवाद व पत्रकारिता—द्वितीय वर्ष
- १५) बी.ए.—सैनिकशास्त्र—द्वितीय वर्ष
- १६) बी.ए.—तत्त्वज्ञान—द्वितीय वर्ष
- १७) बी.ए.—राज्यशास्त्र—द्वितीय वर्ष
- १८) बी.ए.—मानसशास्त्र—द्वितीय वर्ष
- १९) बी.ए.—लोकप्रशासन—द्वितीय वर्ष
- २०) बी.ए.—समाजशास्त्र—द्वितीय वर्ष

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक—०१/परिपत्रक/पदवी—सीबीसीएस अभ्यासक्रम/
२०१६-१७/८४

दिनांक : ०७.०६.२०१७.

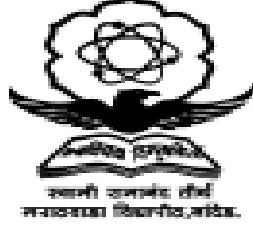
प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, यू.जी.सी. कक्ष, प्रस्तुत विद्यापीठ.

स्वाक्षरित / —

उपकुलसचिव

शैक्षणिक (१—अभ्यासमंडळ) विभाग



**SWAMI RAMANAND TEERTH MARATHWADA
UNIVERSITY, NANDED**

SYLLABUS

Public Administration

B.A. Second Year

Choice Based Credit System (CBCS) Semester Pattern

(With Effective From 2017-18)



Swami Ramanand Teerth Marathwada University, Nanded
Choice Based Credit System (CBCS) Course Structure

Faculty of Social Sciences

Subject : Public Administration

B.A. Second Year Syllabus

Semester Pattern Effective from 2017-2018

Semester	Core course	Paper No.	Name of Paper	Lectures Per Week	Total No. of Lectures	CA	ESE	Total Marks	Credits
III	CCPA-A	V	Personnel Administration	4	55	35	40	75	3
	CCPA-B	VI	State Government & Administration	4	55	35	40	75	3
	SEC	I	Rural Development and Empowerment Programmes	3	45	25	25	50	2
		Total		11	155	95	105	200	8
IV	CCPA-A	VII	Office Administration	4	55	35	40	75	3
	CCPA-B	VIII	District Administration	4	55	35	40	75	3
	SEC	II	Application of E-Governance and E-Devices in Administration	3	45	25	25	50	2
		Total		11	155	95	105	200	8
		Total	22	310	190	210	400	16	

Note:

1. CCPA : Core Course of Public Administration
2. SEC : Skill Enhancement Course
3. CA : Continuous Assessment
4. ESE : End of Semester Examinations



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
CBCS – Paper Pattern in the Subject of Public Administration
B.A. Second Year
(Effective from 2017-18)
SEMESTER – III

Paper No.	Title of the Paper	Internal Mark (CA)	End Semester Exam (ESE)	Total (CA+ESE)
V	Personnel Administration	35	40	75
VI	State Government & Administration	35	40	75
SEC-I	Rural Development and Empowerment Programme	25	25	50

SEMESTER – IV

Paper No.	Title of the Paper	Internal Mark (CA)	End Semester Exam (ESE)	Total (CA+ESE)
V	Office Administration	35	40	75
VI	District Administration	35	40	75
SEC-II	Application of E-Governance and E-Devices in Administration	25	25	50



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Public Administration
B.A. Second Year
Semester – III
Paper – V
Personnel Administration
(Effective from June – 2017)

Credits : 03

Periods : 55

Marks : 75

Course Introduction:

Personnel administration is an important part of Public administration. Personnel administration is the art and science of planning, organizing, directing, controlling and motivating human resources. The main thing is to give knowledge of personnel system in Indian administration, specially how to process of Recruitment, Training, Promotion and Retirement of the Government Sector Employees; and understands all new issue in personnel administration.

Course Objectives:

1. To familiarize the students with basic process of Civil Service Recruitment in Indian Personnel Administration.
2. To understand how to Train Civil Servants for their Better Role in Indian Governance and Administration.
3. To know the Systematic process in Personnel Administration (Recruitment to Retirement of the Personnel).

Course Content:

	Periods	Marks
Unit-1 Personnel Administration – Meaning, Importance, Scope	10	15
Unit -2 Recruitment – Meaning, Direct & Indirect Recruitment	10	15
Unit-3 Training – Meaning, Objectives & Types	15	15
Unit- 4 Promotion – Meaning, Principles of Promotion (Merit & Seniority)	10	15
Unit -5 Retirement – Meaning, Need of Retirement Benefits of Retirement (Pension, Gratuity, Provident funds, NCPS)	10	15

Suggested Reading

1. Goel, S.L., Personnel Administration and management, Sterling Publishers, New Delhi, 1993.
2. Basu Rumki, Public Administration Concept and Theories, Sterling Publishers, New Delhi, 2013.
3. Rajesh K. Jha, Public Personnel Administration, Pearson Publication, New Delhi, 2012.
4. Edwin B. Flippo, Personnel Management, Singapur, 1984
5. Glenn Stal, Personnel Administration, Oxford IBH Publication, New Delhi, 1977
6. Gosh, Personnel administration, Sudha Publication, New Delhi, 1975.
7. Gupta C.B., Human Resources Management, Sultan Chand & Sons publication, New Delhi, 2001.
8. Puri K.K., Personnel Administration and Financial Administration, Bharat Publishers, Jalandhar, 2005.
9. Arun Monappa, Managing Human Resources, Macmillan Indian Ltd. 2001
10. Sharma M.P., Public Administration : Theory and Practice, Kitab Mahal, Allahabad, 1988
11. Shina V.M., Personnel Administration, RBAS Publishers, Jaipur, 1986.
12. सिन्हा व्ही. एम., कार्मिक प्रशासन, आरबीएसए पब्लिशर्स, जयपूर, १९८५
13. कटारिया सुरेंद्र, कार्मिक प्रशासन, आरबीएसए पब्लिशर्स, जयपूर, २००८
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17. चव्हाण पी. जी., मामीडवार एस.एस., कर्मचारी व वित्तीय प्रशासन, कैलास पब्लिकेशन्स, औरंगाबाद, १९८८
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20. ठोंबरे सतिष, शेख एम. आय., कर्मचारी प्रशासन, अभिजित प्रकाशन लातूर, २००९
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SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Public Administration

B.A. Second Year

Semester – III

Paper – VI

State Government and Administration

(With Special Reference to Maharashtra)

(Effective from June – 2017)

Credits : 03

Periods : 55

Marks : 75

Course Introduction:

India is a Democratic Republic with a Parliamentary form of government which is federal in structure with unitary features. There is a Council of Ministers with the Prime Minister as its head to advise the President who is the constitutional head of the country. Similarly in states there is a Council of Ministers with Chief Minister as its head, who advises the Governor. In this paper focus is on the Structure of State Government and Administration with special reference to Maharashtra. The course is designed to provide knowledge to the students about formation of state in India, State Legislature, State executive and State judiciary.

Course Objectives:

1. The Course introduces and provides knowledge of State Government and Administration.
2. To understand process of State Judiciary.
3. To know perceive Constitutional and Statutory Agencies.

Course Content:

	Periods	Marks
Unit-1 Formation and reorganization of Maharashtra State.	10	15
Unit-2 State Legislature.	15	15
a) Governor – Powers, Functions & Role.		
b) Legislative Assembly (Vidhan Sabha) – Composition and Functions.		
c) Legislative Council (Vidhan Parishad) – Composition and Functions.		
Unit-3 State Executive	10	15
A) Chief Minister		
B) Council of Ministers		
C) State Secretariat		
Unit-4 State Judiciary	10	15
High Court – Composition & Powers		
Unit-5 Constitutional and Statutory Agencies	10	15
a) Maharashtra Public Service Commission		
b) State Election Commission		
c) State Women Commission		

Suggested Reading

1. Jain Ashok, Government and Politics of Maharashtra
2. Kharkar & Velankar, Government of Maharashtra.
3. Maheshwari S.R., State Government in India, Mecomillan, New Delhi, 1982.
4. Government of India, Administrative Reforms Commission-II, 15th Report on State Administration, New Delhi, 2009.
5. Khandelwal R.M., State level Plan Administration in India, RBSA Publishers, Jaipur, 1985.
6. Sapru R.K., Indian Administration, Kalyani Publishers, New Delhi, 2001.
7. Arora R.K., Goyal Rajani, Indian Public administration, Wishwa Prakshan, New Delhi, 2009.
8. Padhi A.P., State Administration in India, Uppal Publication, New Delhi, 1998.
9. कटारिया सुरेंद्र, राज्य प्रशासन, मलिक एण्ड कंपनी, नई दिल्ली, २००७
10. आरोडा रमेश, चतुर्वेदी गिता, भारत में राज्य प्रशासन, आरबीएसए पब्लिशर्स, जयपूर, २००७
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15. पाटील वा. भ. महाराष्ट्र प्रशासन, प्रशांत पब्लिकेशन्स, जळगाव, २०१२
16. बंग के. आर., महाराष्ट्र प्रशासन, विद्या बुक्स, औरंगाबाद, २००१
17. कुडकेर एन. पी., एकंबेकर पंचशील, महाराष्ट्र आणि जिल्हा प्रशासन व्यवस्था, अरुणा प्रकाशन, लातूर, २०१७



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
Public Administration
B.A. Second Year
Semester – III
Skill Enhancement Course – I
Rural Development and Empowerment Programmes
(Effective from June – 2017)

Credits : 02

Periods : 45

Marks : 50

Course Introduction:

Rural development programmes are designed to facilitate a multi-faceted growth of the rural poor people by extending the benefits of development to them. The main aim of rural development programmes is to improve the living standards of the people and providing them opportunities. In the present era, various rural development programmes have been newly defined by Prime Minister. This course designed to create awareness of rural development in the students.

Course Objectives:

1. To understand Rural Development and Empowerment.
2. To study various Rural Development Programmes.
3. To understand various issues in rural development programmes.

Course Content:

	Periods	Marks
Unit-1 Meaning & Importance of Rural Development	15	20
1. Rural Development		
2. Women Empowerment of rural area		
3. Rural Employment		
Unit-2 Rural Development Programme	15	20
1. Clean India Mission (Swachh Bharat Abhiyan)		
2. MGNREGA (Mahatma Gandhi National Rural Employment Guarantee Act-2014)		
3. Pradhan Mantri Awas Yojana		
4. Jalyoukt Shivar		
Unit-3 Issue in Rural Development & Empowerment	15	10
1. Transparency and Accountability		
2. Rural Migration		
3. Lack of Effective Implication		

Note : It is obligatory to conduct 45 Periods in one semester for Skill Enhancement Course, per week 3 periods, one for theory and 2 for practical's.

Internal Practical : (25 marks)

- Write a Assignment on Concept of Rural Development. 10 mark
- Concern teacher should take a test of total 05 mark
- Create two survey form (or) write short survey report on Rural Development Programme . 10 marks

External Practical Exam : (25 marks)

External practical exam is conducted by University at the end Semester. 25marks.

Suggested Reading

1. Desai Vasant, Fundamental of Rural Development : A systems Approach, Himalaya Publication, Bombay, 1991.
2. Hoja Rakesh, Administrative Interventions in Rural Development, Rawat Publication Jaipur, 1987.
3. Sharma S.K. & Malhotra S.L., Integrated Rural Development, Abhinav Prakashan, New Delhi, 1977.
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6. Maheshwari S.R., Rural Development in India, Sage Publication, New Delhi, 1985.
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13. यादव रामजी, भारत में ग्रामिण विकास, अर्जुन पब्लिकेशन्स, नई दिल्ली, २००८.
14. कराळे, कविमंडन, ग्रामिण विकासाचा एकात्मिक दृष्टिकोन, मंगेश प्रकाशन नागपूर, २००६
15. कत्तुरवार बी. आर., ग्रामिण विकास प्रशासन, ओमसाई प्रकाशन, देगलूर, २०१७



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Public Administration

B.A. Second Year

Semester – IV

Paper – VII

Office Administration

(Effective from June – 2017)

Credits : 03

Periods : 55

Marks : 75

Course Introduction:

Everyone knows what is meant by an ‘Office’ but very few are able to define it. Office Administration is a part of general management. The main aim of the paper Office Administration is to introduce the process of the work method. What is role of head of the office in office administration? How to keep safely and smoothly maintain office records & environment.

Course Objectives:

1. To understand the meaning of Office Administration.
2. To introduce the Office Procedure and Method.
3. To identify various problems in Office Administration.

Course Content:

	Periods	Marks
Unit-1 Office Administration - Meaning, Importance & Functions	15	15
Unit-2 Office Environment	10	15
a) Office Lighting – Meaning and Importance		
b) Noise Control - Meaning and Importance		
c) Sanitation - Meaning and Importance		
Unit-3 Office Procedure and Method	10	15
a) Head of Institute – Qualities and Function		
b) Establishment - Function		
c) Filing – Meaning and Method		
Unit-4 Working of Office Administration	10	15
a) Manuals – Meaning and Type		
b) Reporting – Type and Importance		
c) Service Book – Objectives and Importance		
Unit-5 Problems of Office Administration	10	15
a) Red tape – Meaning and Effects		
b) Stress - Causes and Effects		
c) Corruption - Causes and Effects		

Suggested Reading

1. E. C. Eyre, Med, ACIS, Office Administration, Rupa Co. New Delhi, 1983.
2. Prof. Sahai, Modern Office Management, Kitab Mahal, Allahabd.
3. Arora S.P., Office Organisation and Management.
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5. Lokhandwala A.H., & Behere V.K, Office Management, Nirali Prakashan, Pune.
6. जोशी प्रतिभा, कार्यालय व्यवस्थापन, सुविचार प्रकाशन, पुणे.
7. लांजेकर जगदिश, जॉन्सन बोर्जेस, कार्यालयीन संघटन व कौशल्य, डायमंड पब्लिकेशन्स, पुणे.
8. जोशी वि. अ., कार्यालय व्यवस्थापन, नरेंद्र प्रकाशन, पुणे.
9. लोहार व कोठारी, कार्यालय व्यवस्थापन, प्रशांत प्रकाशन, जळगाव.
10. बन वशिष्ट, कार्यालय प्रशासन, अरुणा प्रकाशन, लातूर, २०१४



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
Public Administration
B.A. Second Year
Semester – IV
Paper – VIII
District Administration
(Effective from June – 2017)

Credits : 03

Periods : 55

Marks : 75

Course Introduction:

The Present system of district administration owes its origin to the time of the Mauryan Empire. But modern structure of district administration in India developed in Colonial Period (1772). At that time was district administration established for collection of revenue. In the present era, district is the basic territorial unit of administration in India. District administration is the total functioning of Government in a district. In this paper stress is on providing knowledge of district administration for the Students.

Course Objectives:

1. To know what is District Administration means.
2. To understand Structure and function of various departments of District Administration.
3. To provide knowledge of the revenue system, Judiciary system and Police administration at district level.

Course Content:

	Periods	Marks
Unit-1 District Administration - Meaning & Elements of District Administration	10	15
Unit-2 Law and Order - Principles and Agencies	10	15
Unit-3 District Revenue Administration	15	15
a) District Collector		
b) Sub Divisional Officer		
c) Tahasildar		
d) Talathi		
Unit-4 District Judiciary	10	15
a. District and Session Court		
b. Loknyayalaya		
Unit-5 District Police Administration	10	15
a. District Superintendent of Police		
b. Police Inspector		
c. Police Patil		

Suggested Reading

1. Khera S.S., District Administration, National, New Delhi, 1977
2. Jain R. B., District Administration, Indian Institute of Public Administration, 1980
3. Dayal Ishwar, Mathur Kuldeep & Battacharya M., District Administration, McMillan, New Delhi, 1976
4. Misra S.C. Police Administration in India, National Police Academy, Mount Abu, 1972
5. Shrama P.D., Indian Police : A Development Approach, Delhi, 1971.
6. Shukla J.D., State and District Administration in India, IIPA, New Delhi
7. Sapru, R.K., Indian Administration, Kalyani Publishers, New Delhi, 2001.
8. Maheshwari S.R., State Government in India, Mcmillan, New Delhi, 1982.
9. Government of India, Administrative Reforms Commission-II, 15th Report on State Administration, New Delhi, 2009.
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19. कुडकेर एन. पी., एकंबेकर पंचशील, महाराष्ट्र आणि जिल्हा प्रशासन व्यवस्था, अरुणा प्रकाशन, लातूर, २०१७



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
Public Administration
B.A. Second Year
Semester – IV
Skill Enhancement Course – II
Application of E-Governance and E-Devices in Administration
(Effective from June – 2017)

Credits : 02

Periods : 45

Marks : 50

Course Introduction:

The E-Governance is basically associated with carrying out the functions and achieving the result of governance through the utilization of ICT (Information and Communications Technology). World Bank explained the “E-Governance as the use by Government agencies of information technology that have the ability to transform relations with citizens.” In India, main trust for E-governance was provided by the launching of NICNET in 1987 by the national satellite based computer network. It is established that E-Governance is the application of information and Communication technology to transform the efficiency, effectiveness, transparency and accountability in the government. The course mainly aims at creating new skill in students for Application of E-Governance and Digital Devices in administrative service delivery.

Course Objectives:

1. To familiarize the students with concept of E-Governance and digital technology in service delivery.
2. To understand how to use of E-Governance in various administrative departments.
3. To know the application of E-Governance and various issues.

Course Content:

	Periods	Marks
Unit-I E-Governance	15	20
1. E-Governance – Meaning and Importance		
2. Digital Service Delivery Devices		
3. Use of E-devices in Higher Education		
Unit-II Application of E-Governance	15	20
1. E-Seva		
2. E-Panchayat		
3. E-Scholarship		
4. Social Networking Apps		
Unit-III Various Issues in E-Governance	15	10
1. Lack of E-Literacy		
2. People Participation		
3. IT Security		

Note : It is obligatory to conduct 45 Periods in one semester for Skill Enhancement Course, per week 3 periods, one for theory and 2 for practical's.

Internal Practical : (25 marks)

- Write an Assignment on Concept of E-Governance and E-Digital Devices. 10 mark
- Concern teacher should take a test of total 05 marks on above syllabus.
- Visit local Common Service Center (Setu Suvidha) and write a short report on how to use E-Governance. 10 marks

External Practical Exam : (25 marks)

External practical exam is conducted by University at the end Semester. 25marks.

Suggested Reading

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2. Government of India National E-Governance Plan, www.Indian.gov.in
3. Gupta D.N., E-Governance: A Comprehensive Framework, New Century Publication, Verlag, 2008.
4. Pardhasardhi Y., E-Governance and Indian Society. Kanishka Prakashan, New Delhi,2009.
5. Sinha R.P., E-Governance in India: Initiatives and Issues, Concept Publication, New Delhi, 2006.
6. भूताळे, वडवळे, लोकप्रशासन परिचय व मूलतत्वे, क्रिएटिव्ह प्रकाशन, नांदेड, २०१५

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स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड— ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

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स्तरावरील द्वितीय वर्षाचे CBCS Pattern
नुसारचे अभ्यासक्रम शैक्षणिक वर्ष
२०१७-१८ पासून लागू करण्याबाबत.

परिपत्रक

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ३ मे २०१७ रोजी संपन्न झालेल्या ३८व्या मा. विद्या परिषद बैठकीतील विषय क्र.१२४/३८-२०१७ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील द्वितीय वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१७-१८ पासून लागू करण्यात येत आहेत.

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- २) बी.ए.—हिंदी (ऐच्छिक)—द्वितीय वर्ष
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- ७) बी.ए./बी.कॉम./बी.एस्सी./बी.एफ.ए./बी.एस.डब्ल्यू—उर्दू (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ८) बी.ए.—फॅशन डिझाईन—द्वितीय वर्ष
- ९) बी.ए.—अर्थशास्त्र—द्वितीय वर्ष
- १०) बी.ए.—भूगोल—द्वितीय वर्ष
- ११) बी.ए.—इतिहास—द्वितीय वर्ष
- १२) बी.ए.—मानव हक्क—द्वितीय वर्ष
- १३) बी.ए.—ग्रंथालय व माहितीशास्त्र—द्वितीय वर्ष
- १४) बी.ए.—जनसंवाद व पत्रकारिता—द्वितीय वर्ष
- १५) बी.ए.—सैनिकशास्त्र—द्वितीय वर्ष
- १६) बी.ए.—तत्त्वज्ञान—द्वितीय वर्ष
- १७) बी.ए.—राज्यशास्त्र—द्वितीय वर्ष
- १८) बी.ए.—मानसशास्त्र—द्वितीय वर्ष
- १९) बी.ए.—लोकप्रशासन—द्वितीय वर्ष
- २०) बी.ए.—समाजशास्त्र—द्वितीय वर्ष

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक—०१/परिपत्रक/पदवी—सीबीसीएस अभ्यासक्रम/
२०१६-१७/८४

दिनांक : ०७.०६.२०१७.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, यू.जी.सी. कक्ष, प्रस्तुत विद्यापीठ.

स्वाक्षरित / —

उपकुलसचिव

शैक्षणिक (१—अभ्यासमंडळ) विभाग

**SWAMI RAMANAND TEERTH MARATHWADA
UNIVERSITY NANDED**

SYLLABUS

SOCIOLOGY

B.A. Second Year

Choice Based Credit System (CBCS) Semester Pattern

(With Effective from Jun 2017)

**SWAMI RAMANAND TEERTH MARATHWADA
UNIVERSITY NANDED**

**Choice Based Credit System (CBCS) Course Structure
Faculty of Social Science
Subject : Sociology
B.A. Second Year Syllabus
Semester Pattern Effective From June 2017**

Sem-ester	Course	Paper No	Name of Paper	Lectur-ers per Week	Total No of Lecturer	CA	ESE	Total Marks	Credits
III	CC SOCI	V	Indian Society Structure and Change	4	55	35	40	75	3
	CC SOCI	VI	Transformati ve Movement in India	4	55	35	40	75	3
	SEC	I	Rural Society and Development	3	45	25	25	50	2
		Total		11	155	95	105	200	8
	CC SOCI	VII	Social Problems in contemporar y India	4	55	35	40	75	3
	CC SOCI	VIII	Human Rights & Society	4	55	35	40	75	3
	SEC	II	Problems of Slum	3	45	25	25	50	2
		Total		11	155	95	105	200	8
		Total		22	310	190	210	400	16

Note :

- 1) CCSOCI : Core Course of Sociology
- 2) SEC : Skill Enhancement Course
- 3) CA : Continuous Assessment
- 4) ESE : End of Semester Examinations
- 5) Paper (Elective) Transfer of Credit as Per Student Choice.

CBCS - Paper Pattern In the Subject of Sociology
B.A. Second Year
(Effective From Jun – 2017)
SEMESTER – III

Paper No	Title of the Paper	Internal Mark (CA)	End Semester Exam (ESE)	Total (CA+ESE)
V	Indian Society Structure and Change	35	40	75
VI	Transformative Movement In India	35	40	75
SEC-I	Rural Society and Development	25	25	50

SEMESTER – IV

Paper No	Title of the Paper	Internal Mark (CA)	End Semester Exam (ESE)	Total (CA+ESE)
VII	Social Problems in Contemporary India	35	40	75
VIII	Human Rights & Society	35	40	75
SEC-II	Problems of Slum	25	25	50

SOCIOLOGY
B. A. II (Year)
SEMESTER-III, PAPER-V
Indian Society : Structure & Change
Effective From June – 2017

Credits : 03

Periods : 55

Marks : 75

Objectives:

Today, Indian society entered into post-modern period. The external forces affected on internal structure, such as Culture and ethnicity of Indian Society. The social changes between the present and the past is an evident feature of the society. The course also has as its focus the changing patterns of inequality in contemporary societies.

It is quite hope that the sociological perspectives on society. The Social Milieu presented in proposed course will enable students to gain a better understanding of their situation and region.

Introduction	Period	Marks
1) Main Features of Indian Society	14	19
i) Religious Pluralism		
ii) Linguistic Pluralism		
iii) Unity in Diversity		
2) Indian Community and Changes	14	19
i) Tribal community: Meaning, Characteristics and Changing Nature		
ii) Rural community: Meaning, Characteristics and Changing Nature		
iii) Urban community: Meaning, Characteristics and Changing Nature		
3) Social Structure & Change	14	19
i) Community Development Programme: Meaning and Objectives		
ii) Social Stratification: Class-Meaning, Nature and Characteristics		
iii) Inequality: Meaning and factors of Inequality		
4) Social Change in Modern Society	13	18
i) Urbanization: Meaning and Impact on Indian Society		
ii) Industrialization: Meaning and Impact on Indian Society		
iii) Globalization: Meaning and impact on Indian Society		

Books Recommended :

- 1 Dhanagare D.N. Themes and perspectives in Indian Sociology. Rawat Publication, New Delhi.
- 2 Mukherjee P.N. Indian Sociology : Reflections and Introspection. T.K. & Popular Prakashan, Bombay.
- 3 Karve Irawati Kinship organization in India, Asia Publishing House.
- 4 Desai A.R. Social Background of Indian Nationalism. Popular Prakashan, Bombay.
- 5 Ghurye G.S. Caste and Race in India, Popular Prakashan Bombay.
- 6 Shrinivas M.N. Caste : Its twentieth century avatar, Penguin, New York.
7. डॉ. एम.जी. कुलकर्णी भारतीय समाजव्यवस्था
8. सुधा काळदाते भारतीय सामाजिक संरचना : पारंपारिक व आधुनिक
9. राम आहूजा भारतीय समाज
10. मदन भारतीय सामाजिक संस्था
11. जैन लावानिया भारतीय समाजशास्त्र
12. श्रीधर केतकर भारतीय समाजशास्त्र
13. डॉ. शर्मा भारतीय समाज संस्थाएँ और संस्कृती
14. राजेंद्रकुमार शर्मा नागरी समाजशास्त्र अटलांटीका पब्लिकर्स - 2003
15. विरेंद्र शर्मा ग्रामीण समाजशास्त्र, पंचशील प्रकाशन -1999
16. रामनाथ शर्मा, नागरी समाज संस्थाएँ और संस्कृती
17. वीरेंद्र प्रकाशन शर्मा भारतीय समाज व्यवस्था
18. डॉ. प्रदीप आगलावे भारतीय समाज : संरचना आणि परिवर्तन
19. डॉ. जगन कराडे जागतिकीकरण : भारतासमोरील आव्हाने.

SOCIOLOGY
B. A. II (Year)
SEMESTER-III, PAPER-VI
Transformative Movement in India
Effective From June – 2017

Credits : 03

Periods : 55

Marks : 75

Objectives:

India is multilingual multi ethnic and multi-cultural country. So that they are various traditions, customs, myths and rituals as well as ethics and social values too.

So, in the due course of time the aforesaid factor seems to be an absolutely out of date. Consequently this situation gives birth to radical social movements and Indian society in hermits of the unique features compared to other societies.

There for, the course primarily focuses on the types of social movements in India, and students will have an opportunity to learn philosophical background of various social movements in India.

Cha. I - Introduction	Period	Marks
i) Meaning and types of Social Movement	14	19
ii) Causes of Social Movement		
iii) Significance of Social Movement		
II) Dalit Movement in Maharashtra	14	19
i) Origin and Development		
ii) Landless Movement: Contribution of Karmaveer Dadasheb Gaikwad		
iii) Dalit Literary Movement: Nature and Impact		
Cha-III) Anti- Corruption Movement in Maharashtra	14	19
i) Introduction, Historical Background and Its Benefits		
ii) Right to information (R.T.I.) Ad- 2005: Aims & Effects		
iii) Lokpal: Objectives and Benefits		

		Period	Marks
Cha-IV)	Social Movements	13	18
	i) Peasant movements in Maharashtra: Historical Background and contribution of Shard Joshi		
	ii) Naxalite Movement: Origin and Present situation In Maharashtra		

Books Recommended:

1. Rajendra Singh Social movements old and New: A post modernist Critique, Sega Publications, New Delhi.
2. Ray, Raka, Katzenstein, Mary, Fainsod Katzenstein (Eds) - Social movements in India, Poverty, power and politics, Oxford University Press, New Delhi.
3. Omen T. K. Nation, Civil Society and social movements: Essay in political sociology- Sega Publications. New Delhi-
4. Shah, Ghanshyam Social Movements in India; A review of the literature, Sega Publications, New Delhi.
5. Banks I A. The Sociology of Social Movements, Macmillan- London.
6. Desai A. R. (Ed) Peasant Struggle in India, Oxford University Press, New Delhi.
7. Dhanagare D. K Peasant Movement in India- 1920-1950, Oxford University Press, New Delhi.
8. Shah Ghanshyam Social Movement in Two Indian States, Ajanta, New Delhi.
9. Rao, M. S. A. Social Movements Vol. 1, Monhar Publication, New Delhi.
10. Rao, M, S. A. Social Movements and Transformation, New Delhi. H. Jogadand P, G. Dalit Movement in Maharashtra, Kanak Publication, Delhi.
12. Omvedt Gail Reinventing revolution. New Social Movements and the socialist Tradition in India, As Eastgate Book-1993.10
13. Singh K. S. Tribal Movements in India, Manohar Publication, New Delhi.
14. Kumar Ashok Women in India, Today and Tomorrow, ed. by Mukta Mittal, Anmol Publication Pvt, Ltd., New Delhi.
15. Gandhi N. and N. Shah The issues at stake : Theory and Practice in the contemporary women's movement in India. Kali for women, New Delhi- 1992.

16. Pardeshi Pratima Dr. Ambekar and the question of womens liberation in India, WSE- University of Pune. 1998.
17. Gaikwad Shankarl Protective Discrimination Policy and Social Change, Rawat Publication, Delhi.
18. भारत मे दलित सामान्य लक्ष की खोज सुखदेव थोरात.
19. आधुनिक भारत मे दलित : दृष्टि एवं मुल्य -एम.एम. मायकल
20. भारत में सामाजिक आंदोलन बी. एन. सिंह
21. भारत के आदिवासी पी. आर. नायडू
22. भारत मे सामाजिक आंदोलन - बी.एन. सिंह , जन्मेजय सिंह
23. भारतातील सामाजिक चळवळी - घनश्याम शहा (अनुवादक - प्राची चिकटे)
24. अण्णा हजारे - संपादक , प्रदिप ठाकूर व पूजा राणा
25. सामाजिक चळवळ आणि सरकार - घनश्याम शहा
26. भारतातील सामाजिक चळवळी - सरीता देहाडराय व वैशाली देहाडराय.
27. दलित और प्रजातांत्रिक क्रांती - गेल ओमवेट
28. भारतातील सामाजिक चळवळीची रुपरेषा - प्रा. सी.टी.कांबळे व प्रा. टी. एस. पवळे
29. दलित साहित्य चिंतन - डॉ. यशवंत मनोहर
30. आदिवासी नक्षलवाद - डॉ. गोविंद घारे
31. दलित चळवळीची दिशा एक चिंतन : डॉ. नारायण कांबळे
32. केंद्र शासनाचा माहितीचा अधिकार अधिनियम 2005
33. केंद्रीय माहितीचा अधिकार 2005 -अॅड. अविनाश महाजन
34. सिमांतीक समुह स्वरुप आणि समस्या - संपा. जगन कराडे
35. महर्षी विठ्ठल रामजी शिंदे सामाजिक विचार - डॉ. शिवाजी पांडुरंग गायकवाड
36. सामाजिक आंदोलन - गुरुनाथ नालगोंडे
37. सामाजिक चळवळीचे समाजशास्त्र - डॉ. बी.एम.कऱ्हाळे
38. सामाजिक परिवर्तन आणि सामाजिक चळवळी - डॉ. सुधा काळदाते

39. सामाजिक चळवळी - डॉ. एस.पी. देवगावकर व डॉ. शैलजा देवगावकर
40. भारतातील सामाजिक - आंदोलने - प्रा.सौ. सुनंदा भद्रशेटे, प्रा. बी.बी. शेख प्रा. भालेराव
41. मानव अधिकार विस्थापितांच्या व पर्यावरणाच्या समस्या - डॉ. निळकंठ भुसारी
42. दलितवाङ्मय प्रेरणा व प्रकृती : डॉ. शंकरराव खरात, सुगावा पुणे
43. दलित साहित्याचे निराळेपण : डॉ. प्रभाकर मांडे
44. माहितीचा अधिकार : वास्तव आणि उपाय : डॉ. बी.आर. भोसले, नांदेड
45. दलित साहित्य सिद्धांत आणि स्वरूप : डॉ. यशवंत मनोहर , प्रबोधन नागपूर
46. महाराष्ट्रातील दलित शोध आणि बोध : गारे / लिमये : मुंबई
47. दलितांचे प्रबोधन : डॉ. गंगाधर पानतावणे.
48. दलित साहित्य एक अभ्यास : संपा. अर्जुन डांगळे म.रा. मुंबई.
49. दलित साहित्य स्वरूप व भूमिका : वामन निंबाळकर
50. दलित साहित्य दिशा आणि दिशांतर : दत्ता भगत, अभय , नांदेड
51. दलित साहित्य जेव्हा चळवळ बनते : डॉ. योगेंद्र मेश्राम, प्रचार, कोल्हार.
52. कर्मवीर दादासाहेब गायकवाड : काल आणि कर्तृत्व प्रकाशन सा.सं. म. मुंबई
53. आंबेडकरी चळवळीचे बदलते संदर्भ : डॉ. नारायण कांबळे
54. नामांतराचे विस्थापित : डॉ. स्नेहलता मानकर
55. शासन, समाज आणि नक्षलवाद : संपा. रामकिशन मांजरे
56. नक्षलवाद आणि भारताची अंतर्गत सुरक्षा : संपा. गहेरवार, जाधव, मुसळे

SOCIOLOGY
SEMESTER – III B.A. IInd (Year)

Skill Enhancement Course – I
Rural Society and Development
Effective from June – 2017

Credits : 02

Periods : 45

Marks : 50

Course Introduction :

In human history has such a high percentage of the words population lived in villages. Rural Community life is not new in human evolution. Main aim of the course is to create awareness of rural society and Development in the students. In the present era rural development programmers improvement of the living standards and providing them opportunites for rural peoples.

Course Objectives :

- 1 To understand Rural Society
- 2 To Know the various Rural Development Programmes.
- 3 To understand issues in process of implementation of rural development programmes.

Cours Contents		Periods	Marks
Unit – I	Rural Society	15	20
	1 Meaning of Rural Society		
	2 Characteristics of Rural Society		
	3 Changing nature of Rural Society.		
Unit- II	Rural Development Programmes	15	20
	1 Women Self help Group Bachat Gut		
	2 Clean Indai Mission Swatch Bharat Mission		
	3 Mahatma Gandhi Tanta Muktti Abhiyan		
Unit - III	Issue in rural development.	15	10
	1 Lake of Literacy		
	2 Rural Migration		
	3 Lake of Effective implication		

Note :- It is obligatory to conduct 45 periods in one semester for skill Enhancement course, per week 3 periods, one for theory and 2 for practical's.

Internal Practical : (25 Marks)

- Write a Assignment on concept of Rural Society – 10 Marks
- Concern Teacher Should take a test of total 05 Marks.
- Create two survey from (OR) Write short Survey report on rural Development Programme - 10 Marks.

External Practical Exam : (25 Marks)

External Practical Exam is conducted by University at the end semester 25 Marks.

Suggested Reading.

- 1) ग्रामीण विकास का आधुनिक दर्शन, सुबह सिंह यादव, सत्यभान यादव, सबलाईम पब्लिकेशन्स, जयपूर-1997
- 2) भारतीय समाज में महिलाओं का विकास, श्रीमती मंजू शर्मा, राज पब्लिशिंग हाऊस, जयपूर.
- 3) ग्रामीण विकासाचा एकात्मिक दृष्टिकोन, गंगाधर कराळे, मंगेश प्रकाशन, नागपूर
- 4) भारतीय समाजाचा परिचय, कपाडीया के.एम., फडके प्रकाशन कोल्हापूर.
- 5) विश्व व्यापार संघटन भारतीय कृषी के समक्ष चुनौतियाँ, कुमारसिंह अशोक, कुरुक्षेत्र अंक 3 जानेवारी 2007.
- 6) सिच्युएशन ऑफ फार्मस इन इंडिया, चंदा के.टी. सोशल अॅक्शन व्हि.ओ.ए.एल., दिल्ली.
- 7) भारतीय महिलाएं, नई दिशाएं : संपा. रोमी शर्मा, सूचना और प्रसारण मंत्रालय भारत सरकार, 2002
- 8) Women's Empowerment Through Self- Help Groups: Dr. G.S.Yelne, Alfa Publication, Nanded.
- 9) Social Impact of Rural Development on Education : Manzoor Hussain, Sociological Bulletin, Hyderabad. 2016
- 10) ICTS and Rural Development in India P.B. Desai Ed. Dr. S. Salunke Aurangabad-2013.
- 11) Development of Women Entrepreneurship : Pratima Pawar, Research Process, Ed. By Dr. S. Salunke, Aurangabad.
- 12) Rural Sociology: Partha Sarathi De. Pearson Publication Delhi.
- 13) India Migration Report 2010-11 the Americas : Cambridge Press.

SOCIOLOGY
B. A. II
SEM. IV, PAPER-VIIth
Social Problems in Contemporary India
Effective From June – 2017

Credits : 03

Periods : 55

Marks : 75

Objectives:

The present course attempts to Introduce the basic social problems in contemporary India, It deals with the real fact of social inequality and its understanding by sociology. Specifically, the course will attempt 2 forward some consideration on the legal and the secular state in India.

We will explore the contemporary Social issues, causes of crime, gender discrimination in various institutional context and women's issues that have been central to it. So, this course an attempt will be made to elaborate a framework for the observation of the present problems.

	Period	Marks
1) Introduction.	14	19
i) Meaning & Nature of Social Problems.		
ii) Causes of Social Problems.		
iii) Theoretical Approaches to Social Problems.		
a) Anomic b) Social pathology c) Value conflict		
2) Problems of Women.	14	19
i) Causes of Gender Discrimination		
ii) Female Prostitution - Effect on Indian Society		
iii) Sexual Harassment: Effect & Measures		
3) Social Issues.	14	19
i) Causes & Problems of Religious Minorities.		
ii) Causes & Problem of Nomadic Tribes.		
iii) Problems of Superstitions- Causes & Remedies.		
4) Crimes.	13	18
i) Meaning & Causes of Juvenile Delinquency,		
ii) Cyber crime - Nature & Effects.		
iii) Problems of Alcoholism - Causes & Measures.		

Reference Book

1. भारतीय सामाजिक समस्या : भांडारकर , शब्बीर , पालकर
2. भारतीय सामाजिक समस्या : खडसे भा.कि.
3. भारतीय सामाजिक समस्या : डॉ. संगवे विलास
4. जात आणि जमाती : चव्हाण रामनाथ
5. भारतातील समकालीन सामाजिक समस्या : माने मानीक
6. भारतीय सामाजिक समस्या : प्रा. मो. श. पराडकर
7. पारंपारिक आणि आधुनिक भारत - प्रा. सौ. सुधाताई काळदाते.
8. हिंदू अछूत जातियों में छू आछूत : देवेन्द्र पाल सिंह तोमर
9. भारतीय समाज संरचना आणि समस्या, डॉ. प्रदिप आगलावे, श्री साईनाथ प्रकाशन, नागपूर
10. सामाजिक विघटन : डॉ. रामनाथ शर्मा व राजेंद्रकुमार शर्मा
11. सामाजिक समस्याए : राम आहुजा
12. महिला सशक्तिकरण : राम शर्मा आणि एम.के. शर्मा
13. आधुनिकताए एवं नारी सशक्तीकरण : व्ही.एन. सिंह
14. नारी वाद : व्ही.एस. सिंह
15. भारतीय समाज मे अंध विश्वास : डॉ. किशोर आर. पवार
16. बुवाबाजी : बळी स्त्रियांचा श्याम मानव
17. मायाजाल अंधश्रद्धेचे : श्याम मानव
18. वादळ अंधश्रद्धेचे : श्याम मानव
19. अनिष्ट प्रथा : उत्तम कांबळे
20. महाराष्ट्रातील प्रसार माध्यम : संजय कोल्हटकर
21. कौटुंबिक हिंसाचार : मेघा ताडपत्रीकर
22. भारतीय समाजातील समस्या आणि वाद : टी.के. ओमन अनु. पाठक
23. भारतीय समाज आव्हाने आणि समस्या : राज लोटे पिंपळापूरे अॅड. कं. पब्लिशर्स नागपूर
24. तमाशातील स्त्रीकलावंत : जीवन व समस्या : डॉ. साधना बुरडे निर्मल प्रकाशन, नांदेड.
25. Social Problems and welfare – Dr. Rajendra K. Sharma.
26. M.H. Newmeyer –Social Problems and the Channing Society.
27. Paul Tappan – Crime, Justice and Correction
28. Ram Ahuja – Social Problems in India.
29. Dr. R. Kumar Sharma – Social Problems and Welfare.
30. Social Problems in India – Ahuja R.
31. Family violence in India : Human rights – Shirwadkar S.

SOCIOLOGY
B. A. II
SEM. IV, PAPER-VIIIth
Human Rights and Society
Effective From June – 2017

Credits : 03

Periods : 55

Marks : 75

Objectives:

This course has been specifically framed to address the necessity and interests of the students in emerging aspects of applied knowledge in Human Rights and social issues under the surveillance of Indian constitution.

Similarly, the present course introduced the update of new areas of sociological explorations related to Government policies & schemes as well as to develop familiarity with emerging areas of Human Resource and its interface with social issues.

	Period	Marks
1) Introduction.	14	19
i) Meaning of Human Rights		
ii) Development of Human Rights		
iii) Necessity of Human Rights		
2) Constitution of India.	14	19
i) Dr, Babasaheb Ambedkar as an architecture of Indian Constitution		
ii) Fundamental Rights		
iii) Directive Principles and State Policy		
3) Human Rights & Society.	14	19
i) Rights of Women		
ii) Rights of Consumer		
iii) Rights of Youth		
4) Human Resource Development in India	13	18
i) Child Development-Govt. Policies.		
ii) Labor Welfare-Govt. Policies.		
iii) Tribal Development - Govt. Policies, welfare Schemes		

Reference Books

1. Shams Shamsuddin. Yomeu Law and Social Change. New Delhi, Ashish Publishing House. 1991.
2. Katalia/Majundar. The Constitution of India. New Delhi. Orient Publishing Company. 1981.
3. Anthony M. J., Social action through courts, 1S1. New Delhi, 3991.
4. Bhatia K.L., Law and Social Change to words 21" Denture, Deep and Deep, New Delhi, 1994.
5. Campton Helen M, and Keiser Kcneth K., Social Welfare, Institution and Process, Random House, Inc., New Vourk, 1970.
6. Armando Morales and Brandford W, Sheatbre, Social Work, ALLYN and INC., London, 1977.
7. Elisabeth Reicherr. Social \Vork and Human Rights Rawat Publications, 2003.
8. Kulkarni P.D., Social Policy and Social Development in India. ASSWI Madras, 1979,
9. Pathak S.5 Social Welfare, An Evolutionary and Development Perspective, McMillun, Delhi, 1981.
10. Patil B.R., The Economics of Social Welfare in India, Somyya, Bombay,1978.
11. Prcederic G. Remer. Social work Values and ethics. Rawat Publication Jaipur, 2005,
12. R, Soorymoorthy. NGOs in India. Raw at Publication Jaipur. 2006.
13. Terry Bomford, The Future of Social Work, McMillan Education Ltd., London, 1990.
14. Johan K. Thomas (ed.) 2005, Human Right of Tribal, Isha Books, New Delhi.
15. H.M. Seervni (ed.), 2006, Constitutional Law of India, Universal Law Publisher Co. PVT. Ltd.
16. Lina, Consalves, 2001, Women and Human Rights. A.P.H. Publishing corporation, New Delhi.
17. Indrani sen Gupta (ed.) 2005, Human Rights of Minority and women's. Isha Book, Delhi.
18. Henry J, Steiner and Phitip Alston, 2000, International Human Rights. In context, Oxford University Press.
19. Adil. Ul-Yasin and Archana Upadhyny 2004, Human Rights, Akansha Publishing. House. New Delhi.

20. मानवी हक्क आणि सामाजिक न्याय : प्रा. पी.के. कुलकर्णी
21. सामाजिक न्याय आणि जागतिकीकरण : आनंद तेलतुमडे
22. मानवी हक्क तत्त्व आणि दिशा भूल : उद्धव कांबळे
23. मानवी हक्क : नंदकुमार
24. भारताचे संविधान : भारत सरकार विधी न्याय मंत्रालय.
25. दलित और प्रजातांत्रिक क्रांती - गेल ओमवेट
26. समाज कल्याण आणि सामाजिक अधिनियम प्रा. कृष्णा शेंडे
27. मानव अधिकार के विविध आयाम : भावना वर्मा
28. मानव अधिकार क्यों और कैसे : देवदत्त धर्माधिकारी
29. मानव अधिकार और महिला इंदू सायनी
30. मानव अधिकार आणि समाज : डॉ. सूर्यकांत पवार आणि प्राचार्य डॉ. डी.डी. घोडगे
31. असंघटीत क्षेत्रातील बालकामगार : डॉ. अंजली जोशी
32. उच्च शिक्षणा पुढील आव्हाने : डॉ. नारायण कांबळे
33. आरक्षण धोरण आणि वास्तव : डॉ. जगन कराडे

SOCIOLOGY
SEMESTER – IV B.A. IInd (Year)
Skill Enhancement Course – II
Problem of Slum
Effective from June – 2017

Credits : 02

Periods : 45

Marks : 50

Course Introduction :

Slum up grading is an urban renewal Strategy which consist physical, social, economic, Organizational and environmental Improvements to slums Undertaken cooperatively and locally Among Citizens, Community groups business and local authorities the aim of these syllabus to Alleviate the poor living standards of slum dwellers

Course Objectives :

- 1 To understand problem faced by people living in slums
- 2 To Know slum people and their living conditions
- 3 To Know various programmes related to problems of slum

<u>Cours Contents</u>	Periods	Marks
Unit – I Introduction	15	20
1 Meaning of Slum		
2 Characteristics of Slum		
3 Causes of Slum		
Unit- II Issues raised in Slum	15	20
1 Problems of Education		
2 Issues of Health		
3 Issues of Crime		
Unit - III Programme for slum	15	10
1 National Policies for slum upgrading in India		
2 Pradhan Mantri Awas Yojana (PMAY)		
3 Programmes related to eradication of Addiction		

Refrence Books :

- 1) Urban Sociology : Nels Anderson & K. Ishwaran ; Asia Publication House Bombay 1965
- 2) Small Cities and Towns in Global Era; R.N. Sharma & R.S. Sandhu, Rawat Publication Jaipur
- 3) Changing India ; Robert W. Stern; Rawat Publication Jaipur
- 4) Crime and Society Books in Twentieth-Century england, Pearson.
- 5) नगरीय समाजशास्त्र : डॉ. राजेंद्रकुमार शर्मा, एटलांटीक पब्लिशर्स एण्ड डिस्ट्रीब्यूटर्स अन्सारी रोड दरियागंज नई दिल्ली. 1996
- 6) ग्रामीण व नागरी समाजशास्त्र : प्रा. अशोक गोरे, विद्या बुक पब्लिशर्स, औरंगाबाद -2014
- 7) नगरीय समाजशास्त्र : शशी के. जैन, डॉ. ध्रुवकुमार दिक्षित, डॉ. अजयसिंह राठोड, रिसर्च पब्लिकेशन्स, जयपूर.
- 8) भारतातील सामाजिक समस्या : डॉ. सुधा काळदाते, पिंपळापुरे अँड पब्लिशर्स, नागपूर 1991
- 9) नगरीय समाजशास्त्र के विविध आयाम : सुरेंद्र कुमार शर्मा, डिस्कवरी पब्लिशिंग हाऊस नई दिल्ली-2007 .
- 10) नगरीय समाजशास्त्र : रतनसिंह, ओमेगा पब्लिकेशन्स, नई दिल्ली-2009
- 11) ग्रामीण नगरीय संरचना : अरुणा भार्गव, प्रिन्टवेल, जयपूर 1996
- 12) समाजशास्त्र : एम.एल. गुप्ता, डी.डी.शर्मा, साहित्य भवन पब्लिकेशन्स, आगरा.



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड— ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

Established on 17th September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



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मानवविज्ञान विद्याशाखेतील पदवी
स्तरावरील द्वितीय वर्षाचे CBCS Pattern
नुसारचे सुधारित अभ्यासक्रम शैक्षणिक वर्ष
२०१८-१९ पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक १४ जून २०१८ रोजी संपन्न झालेल्या ४१व्या मा. विद्या परिषद बैठकीतील विषय क्र.११/४१-२०१८ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील द्वितीय वर्षाचा खालील विषयांचा C.B.C.S. (Choice Based Credit System) Pattern नुसारचा सुधारित अभ्यासक्रम शैक्षणिक वर्ष २०१८-१९ पासून लागू करण्यात येत आहे.

१) बी.ए. — द्वितीय वर्ष — उर्दू

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक—०१/परिपत्रक/पदवी—सीबीसीएस अभ्यासक्रम/

२०१८-१९/५२९

दिनांक : १२.०७.२०१८.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.



स्वाक्षरित/—

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

FACULTY OF ARTS

SYLLABUS OF URDU

B.A., B.Sc., B.Com. B.F.A. and B.S.W. (Second Year)

(Second Language)

&

B. A.S.Y. Optional, & SEC

Semester + CBCS Pattern

Semester III & IV

With effect from June 2018

Distribution of Credits for
B.A., B.Sc., B.Com. B.F.A. and B.S.W. (Second Year)
Urdu (Second Language)
Semester +CBCS Pattern
Semester III & IV Paper – III & IV
W.e.f. from June 2018

Semester	Paper	Name of the Course	Lecture Per Week	Total Periods	C.A.	Marks ESE	Total Marks	Credits
III	III	Urdu Second Language (Urdu Shayeri aur Ilm-e- bayan)	04	55	35	40	75	03
IV	IV	Urdu Second Language (Urdu Nasr aur Qawaid)	04	55	35	40	75	03

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
Distribution of Credits for B.A., B.Sc., B.Com. B.F.A. and B.S.W. (Second Year)

Urdu (Second Language)

Urdu Shayeri aur ilm e bayan

Semester +CBCS Pattern

Semester III Paper – III

W.e.f. June 2018

Credits -03

Theory-30 & MCQ 10= Total 40 Marks

C.A. (Continuous Assessment) 35 Marks

[A] UNIT1 Ghazal :

1 Hasrat Mohani:

- 1 Husn-e- be parwah ko khudbeen..
- 2 Nigah-e-yaar jise aashna-e- raz kare

2. Shaad Azeemabadi:

- 1 Tamannauon mein uljhaya gaya hoon
- 2 Khmooshi se musibat aur bhi sangeen...

3. Fani Badayuni:

- 1 khalq kahti hai jise dil tere deewane ka
- 2 Shauq se nakaami ki badaulat koocha –e-dil..

4. Safi Aurangabadi:

- 1 Jab kabhi teri deed hoti hai
- 2 Aashiq bana bhi lete hain apne ko yaar log

5. Shaaz Tamkanat:

- 1 Sanson me base ho tum
- 2 Meri wahshat ka tere shaher me...

[B] UNIT 2 : Nazm

1. Allama Iqbal

- 1 Haqeeqat-e-Husn

2. Josh Malihabadi:

1 Badli ka chand

3. Faiz Ahmed Faiz:

1 Mujh se pahli si mohabbat...

4. Sikandar Ali Wajid:

1 Ajanta

5. Qazi Salim:

1 Dharti tera mujh sa roop

[C] UNIT 3: Rubayi

1. Maulana Altaf Hussain Hali:

- 1 Pasti ka koi had se guzarna dekhe
- 2 Jo log hain nkiyon me mashhoo bahot
- 3 Bulbul ki chaman mein hum zabani chodi

2. Amjad Hyderabad:

- 1 Kis matn ki taseer hoon maloom nahi
- 2 Har cheez musabbab e sabab se mango
- 3 Ek ek ki taak mein laga rahta hai

3. Ata Kalyanvi:

- 1 Unwan ho ke mazmoon badalna hoga
- 2 Zarre zarre se ek jahan paida kar
- 3 Rindi meri taa'at se teri behtar hai

[D] Unit 4: Ilm-e-bayan

Tashbeeh, Isteaara, Kinaya aur majaz mursal

C.A. (Continuous Assessment)

- 1) Two (02) Class Test during the Third Semester for 10 Marks each.
- 2) One (01) Assignment during the Third Semester for 15 Marks

Reference book:

1. Khazina-e-Adab

Edited by

Dr. Shaikh Maheboob (Maheboob saqib)

Dr. Mohd. Maqbool Ahmed (Maqbool Ahmed Maqbol)

Paper Pattern

Credits -03

(Theory-30 MCQ 10= Total 40 Marks)

Q.1] Reference to context from Ghazal

(Any two out of four)

10

Q.2] One long answer type question from 'Nazm' with internal option.

10

Q.3] Short answer type question from 'Rubaiyat' and 'Ilm-e- bayan'

10

(Any two out of four)

Q.4] M.C.Q.on whole syllabus.

10

Total 40

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
Distribution of Credits for B.A., B.Sc., B.Com. B.F.A. and B.S.W. (Second Year)

Urdu (Second Language)

Urdu Nasr aur qawaid

Semester +CBCS Pattern

Semester IV Paper – IV

W.e.f. June 2017

Credits -03

(Theory-30 MCQ 10= Total 40)

1. Unit 1. Afsana

1.Munshi Prem Chand :

1. Eidgah

2.Saadat Hasan Manto:

1. Naya Qanoon

3.Jilani Banu

1 Mom ki Maryam

2. Unit 2. Inshaiya:

1.Mirza Farhatullah Baig

1 Murda badast-e- zinda

2.Rasheed Ahmed Siddiqui

1 Charpai

3.Yousuf Nazim

1 Ayeene mein

3. Unit 3.Khaka

1 Moulvi Abdul Haq

1. Mohsin-ul-mulk

2) Mujtaba Hussain

1 So hai woh bhi aadmi

3) Wahab Andaleeb

1. Dhaan paan sha'ir...Rahi Qureshi

4. Unit 4. Maktoob :

1. Mirza Ghalib

- 1 Mirza Hargopal Tafta ke naam
- 2 Allauddin Ahmed khan ke naam

2. Maulna Abul Kalam Azad

- 1 Maktoob 3rd August 1942
- 2 Maktoob 11th April 1943

5. Unit 5.Qawaid

1. Harf ki quismen
2. fail ki quismen
3. Muhawary aur Zarb-ul-amsal
4. Sabekhe aur lahakhe

C.A. (Continuous Assessment)

- 1) Two (02) Class Test for 10 Marks each.
- 2) One (01) Assignment for 15 Marks

Reference book:

1. Khazina-e-Adab

Edited by

Dr.Shaikh Maheboob (Maheboob Saqib)

Dr. Mohd.Maqbool Ahmed (Maqbool Ahmed Maqbool)

Paper Pattern

Credits -03

(Theory-30 & MCQ 10= Total 40)

Q.1] Reference to context from Afsana (Any two out of three)	10
Q.2] One long answer type question from 'Inshaiya' with internal option.	10
Q.3] Short answer type question from 'Khaka / Maktoob	05
Q.4] Short answer type question from Qawaid	05
Q.5] M.C.Q. on whole syllabus.	<u>10</u>
Total	<u>40</u>

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Distribution of Credits for B.A. (Second Year)

Urdu (Optional)

Semester III & IV +CBCS Pattern Structure

W.E.F. June 2018-19

Credits -3

Theory-30 MCQ 10= Total 40 Marks

C.A.(Continuous Assessment) 35 Marks

Semester	Core Course	Paper	Name of the Course	Lecture Per Week	Total Periods	Internal Evaluation (C.A.)	Marks Of Semester ESE	Total Marks	Credits
III	Urdu	V	Inshaiya aur Drama	04	55	35	40	75	03
	Urdu	VI	Marsiya aur Rubai	04	55	35	40	75	03
	SEC	I	Translation	03	45	25	25	50	02
	Total			11	155	95	105	200	08
IV	Urdu	VII	Khaka Aur Swaneh Nigari	04	55	35	40	75	03
	Urdu	VIII	Nazm Aur Jadeed Ghazal	04	55	35	40	75	03
	SEC	II	Interview & Press Conference	03	45	25	25	50	02
	Total			11	155	95	105	200	08
	Grand Total Sem.III & IV			22	310	190	210	400	16

SEC: Skill Enhancement Course

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Distribution of Credits for B.A. (Second Year)

Urdu (Optional)

Semester +CBCS Pattern Structure

W.E.F. June 2018

Semester III Paper - V

Inshaiya aur Drama

Credits -03(Theory-30 MCQ 10= Total 40 Marks)

C.A. (Continuous Assessment) 35 Marks

[A] Unit.1 Inshaiya

Topic for Discussion

1. Inshaiya ki Tareef
2. Inshaiya Ka Fun
3. Inshaiya Ka Agaz-O-Irteqa

Detailed Study of the Following:

1. Ummid ki khushi -Sir syed Ahmed Khan
2. Gulshan-e- Umid Ki Bahaar - Md. Hussain Aazad
3. Miss Chidiya Ki Kahani - Khaja Hasan Nizami
4. Nai Aur Purani Tehzib ki Takker- Mirza farhatullah Baig
5. Election – Rasheed Ahmed Siddiqui
6. Hostel me Padhna – Pitras Bukhari

B] Unit.2 Drama

Topic for Discussion

1. Drama Ki Tareef
2. Urdu Drama ke Ajzaye Tarkeebi
3. Urdu Drama Ka Agaz-O-Irteqa

Detailed Study of the Following Drama's

1. Khuda Hafiz – Shoukat Thanvi
2. Saraye ke bahar – Krishna Chandar
3. Jonk - Upendranath Ashk
4. Rustum-o-Sahrab - Aga Hashar Kashmiri
5. Anar Kali (Talkhees) – Imtiyaz Ali Taj

C. Unit 3 C.A. (Continuous Assessment)

- 1) Two (02) Class Test during the Third Semester for 10 Marks each.
- 2) One (01) Assignment during the Third Semester for 15 Marks each.

Reference Books:

- 1 Adabi Funparay Part I (Nasr)
Edited by:
Dr.Md.Iqbal Jaweed & Dr.Hamid Ashraf
- 2 Khaka, Inshaiye aur Drama,
Edited by: Mohd. Qasim Siddiqui
Published by Educational Book
House, Aligarh
- 3 Urdu Afsane, Inshaiye aur Drame
Edited by: Mohd. Qasim Siddiqui
Published by Educational Book House, Aligarh
- 4 Inshaiya aur Inshaiye.
By Syed Mohammed Husnain
Published by Educational Book House, Aligarh
- 5 Khyaban e Adab by Azimul haq junedi
Published by Educational Book House, Aligarh
- 6 Naqd o Nazar
By.Dr.Maqbool Ahmed Maqbool

Paper Pattern

Credits -03

(Theory-30 MCQ 10= Total 40)

Q.1] Reference to the context from Inshaiya and Drama (any two out of four)	10
Q.2] One long answer type question from 'Inshaiya and Drama with internal Option.	10
Q.3] Short answer type question from drama	05
Q. 4] Short answer type question from Inshaiya	05
Q.5] M.C.Q. on whole syllabus.	<u>10</u>
Total	40

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

B.A. (Second Year)

Urdu (Optional)

Semester +CBCS Pattern Structure

W.E.F. June 2018

Semester – III Paper - VI

Marsiya aur Rubai

Credits -03

Theory-30 MCQ 10= Total 40 Marks

C.A. (Continuous Assessment) 35 Marks

[A] Unit-1 Marsiya: -

1. Marsiye ki Tareef 2.Ajzai Tarkeebi 3. Agaz-O-Irteqa 4. Marsia Ki Qismein
2. Farzand e paimber ka madine se safer hai (Marsiya-E-Anees Ibtadai 10 Band)
3. Dast e Khuda Quwwat e Bazu hai (Marsiya-Dabeer Ibtadai 10 Band)
4. Marsiya-E-Ghalib - Khaja Altaf Hussain Haali (Page No. 109-112)
5. Marsiya-E-Haali - Safi Lakhnavi (Page No. 113-115)

[B] Unit-2 Rubai:-

1. Rubai ki Tareef
 - 2).Urdu Rubai Ka Agaz-O-Irteqa,
 - 3) Hali,Akber,Rawan, Amjad, Josh aur Firaque ki rubai Goi
1. Jagat Mohan Lal Rawan 1,2,3,4
 2. Amjad Hyderabad 1,2,3,4
 3. Josh Malihabadi 1,2,3,4
 4. Jan Nisar Akhtar 1,2,3,4
 5. Khaja Altaf Hussain Haali 1,2,3,4
 6. Akbar Ilahbadi 1,2,3,4

[C] Unit 3 C.A. (Continuous Assessment)

- 1) Two (02) Class Test during the Third Semester for 10 Marks each.
- 2) One (01) Assignment during the Third Semester for 15 Marks each.

Reference Books:

- 1) Adabi Funparay Part II (Shayeri)
Edited by: Dr.Md.Iqbal Jaweed & Dr.Hamid Ashraf
- 2) Khayaban-e-Adab (Hissa e-Nazm) By Azeem-ul-Haque Junedi, Educational Book House,Aligarh
- 3) Sukhan Shanasi By Dr.Maqbool Ahmed Maqbool

Paper Pattern

Credits -03

(Theory-30 MCQ 10= Total 40)

Q.1] Reference to the context from Marsiya (any two out of four)	10
Q.2] One long answer type question from 'Marsiya' with internal option.	10
Q.3] Short answer type question on Rubaiyat.	05
Q.4] Short answer type question on Rubai go shora	05
Q.5] M.C.Q. on whole syllabus.	<u>10</u>
	40

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
B.A. (Second Year)**

Skill Enhancement Courses

Semester +CBCS Pattern Structure

W.E.F. June 2018

Semester – III Paper - I

Translation (SEC-I)

Credits -02

(Theory ESE-25 C.A.25= Total 50 Marks)

[A] Unit.1 Tarjuma

Topic for Discussion

1. Tarjume ki taareef aur fan
2. Tarjume ki qismen(Azad aur lafzi tarjuma)
3. Urdu mein tarjume ki Riwayat
4. Tarjume ki zaroorat –o- ahmiyat
5. Tarjume ke Usool
6. Tarjume ke masayel
7. Translation a paragraph from Urdu to English and English to Urdu

[B] Unit 2 C.A. (Continuous Assessment)

- 1) Class test during the third semester for 15 Marks each.
- 2) Presentation 10 Marks

Prescribed Books:

- 1) Functional Urdu

Dr.Hameedullah Khan, Meraj Publication Parbhani

- 2) Tarjume ka fun aur riwayat by Dr.Qamer Rayees

Published by Educational Book House, Aligarh

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

B.A. (Second Year)

Urdu (Optional)

Semester +CBCS Pattern Structure

W.E.F. June 2018

Semester – IV Paper - VII

Khaka Aur Swaneh Nigari

Credits -03

Credits -03(Theory-30 MCQ 10= Total 40 Marks)

C.A. (Continuous Assessment) 35 Marks

Topic for Discussion

[A] Unit-1 Khaka

1. Khaka Nigari Ki Tareef 2. Khaka Ka Agaz-O-Irtekha,

Detailed Study of the following Khaka:

1. Wakeel sahib-By Rasheed Ahmed Siddiqui
2. Maulana Mohammed Ali Johar -By Rasheed Ahmed Siddiqui
3. Lamba Aadmi (Kanihya Lal Kapoor) By Mujtaba Hussain
4. Yadon Main Basa Aadmi (Maqdoom Mohiuddin) By Mujtaba Hussain

[B] Unit-2 Sawaneh Nigari:

Topic for Discussion

1. Sawaneh Nigari Tareef 2. Sawaneh Nigari ki Qismen aur Aghaz o Irteqa

Detailed Study of the following Swaneh Nigari

1. "Mirza Ghalib Ke Aqlaq-o-Aadat-o-Khiyalat" (Page.72 to 87) By Altaf Hussain Hali
2. "Yadgaar-e- Hali" (Page-24 to 44) By.Saleha Abid Hussain.

[C] Unit 3 C.A. (Continuous Assessment)

- 1) Two (02) Class Test during the fourth Semester for 10 Marks each.
- 2) One (01) Assignment during the fourth Semester for 15 Marks each.

Reference Books:

- 1 Adabi Funparay Part I (Nasr)
By: Dr.Md.Iqbal Jaweed & Dr.Hamid Ashraf
- 2 Khaka, Inshaiya, Drama Aur Afsane Edited By: Mohd. Qasim Siddiqui
Educational Book House, Aligarh
- 3 Aadmi Nama By Mujtaba Hussain Husami Book Depot. Hyderabad.
- 4 Intekhab-e- Urdu Nasr (1920 ke baad) Dr.Masood Alam -Educatioal Book House,Aligarh.
- 5 Chand Humasr - by Moulvi Abdul Haque.-Anjuman Taraqqu-e-Urdu Hind –Delhi
- 6 Yadgar-e-Ghalib By.Altaf Hussain Hali-Educational Book House,Aligarh
- 7 Yadgar-e- Hali By Saleha Abid Hussain- Anjuman Taraqqu-e-Urdu Hind -Delhi
8. Tajaweez. By Dr.Hamid Ashraf M.M.Publication, Delhi.

Paper Pattern

Credits -03

(Theory-30 MCQ 10= Total 40)

- | | |
|--|-----------|
| Q.1] Reference to the context from khaka aur Sawaneh (any two out of four) | 10 |
| Q.2] One long answer type question from 'Sawaneh' with internal option. | 10 |
| Q.3] Short answer type question on prescribed Sawaneh . | 05 |
| Q.4] Short answer type question on prescribed Khaka . | 05 |
| Q.5] M.C.Q. on whole syllabus. | <u>10</u> |

Total 40

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

B.A. (Second Year)

Urdu (Optional)

Semester +CBCS Pattern Structure

W.E.F. June 2018

Semester – IV Paper - VIII

Nazm Aur Jadeed Ghazal

Credits -03

(Theory-30 MCQ 10= Total 40 Marks)

C.A. (Continuous Assessment) 35 Marks

[A] Unit-1:

Topic for Discussion

Nazm Ki Tareef - Nazm Ka Aagaz-o-Irtequa,

Nazm Ki Qismein - Azad Nazm, Nazm-e-Moarra

Detailed Study Manzumaat:

1. Barsat Ki Baharen – Nazeer Akberabadi
2. Nayi Tehzeeb - Akber Ilahabadi
3. Tasveer e Dard - Allama Muhammed Iqbal
4. Kisaan – Josh Malihabadi
5. Chup ki daad – Altaf Hussain Hali
6. Andhera - Maqdoom Mohiuddin
7. Mazdoor Ka Mehman - Ehsan Danish
8. O Des se aane wale Bata - Akhtar Shirani
9. Tuta Hua Sitara - Ali Sardar Jafri

[B] Unit-2 - Jadeed Ghazal

Topics for Discussion:

1. Jadeed ghazal Ki Tareef. 2. Jadeed ghazal ka Aghaz o Irteqa
3. Jadeed ghazal ke mauzuat.

Detailed Study:

1. HALI: 1. Hai justaju ke khoob se hai khoobtar kahan.
2. Badhao na apas me ulfat ziyada
2. IQBAL: 1. Pareshan ho ke meri khak aakhir dil na ban jaye
2. Phir charagh e lala se roshan hue koh o daman
3. DAAG: 1. Ajab apna haal hota jo wisal e yaar hota
2. Chubhta hai mere dil mein tere naaz ka andaz

4. HASRAT: 1. Woh dasht e khud faramoshi ke chakkar
2. Us shookh ko ruswa na kiya hai ,na kareng
5. SHAHERIYAAR : 1. Seene me jalan Ankhon me toofan sa kyouun hai
2. Jab bhi milti hai mujhe ajnabi lagti hai

[C] Unit 3 C.A. (Continuous Assessment)

- 1) Two (02) Class test during the fourth semester for 10 Marks each.
- 2) One (01) Assignment during the fourth semester for 15 Marks each.

Reference Books:

1. Adabi Funparay Part II (Shayeri)
By: Dr.Md.Iqbal Jaweed & Dr.Hamid Ashraf
2. Inteqab –E- Urdu Shairi 1920 kay baad. By – Abul Kalam Qasmi.
Educational Book House, Aligarh
3. Khayaban –E- Adab (Part –I, II)
Edited by –Azeem-Ul- Haque Junedi. Educational Book House ,Aligarh
4. Urdu Shairi 1920 kay baad. By – Abul Kalam Qasmi. Educational Book House ,Aligarh
5. Allama Iqbal ki urdu shairi mein Talmihaat o istearaat by Dr.Md.Iqbal jawed
6. Aayina e tabeer by .Dr.Mahboob Saquib
7. Marathwada mein Urdu Ghazal by.Dr.Saleem Mohiuddin

Paper Pattern

Credits -03

(Theory-30 MCQ 10= Total 40)

Q.1] Reference to the context from Nazm & Ghazal (any two out of four)	10
Q.2] One long answer type question from Nazm & Ghazal.	10
Q.3] Short answer type question from Nazm go shora.	05
Q.4] Short answer type question from Jadeed Ghazalgo shora	05
Q.5] M.C.Q. on whole syllabus.	<u>10</u>
Total	<u>40</u>

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

B.A. (Second Year)

Skill Enhancement Courses

Semester +CBCS Pattern Structure

W.E.F. June 2018

Semester – IV Paper - II

Interview and Press Conference (SEC-II)

Credits -02

(Theory ESE-25 C.A.25= Total 50 Marks)

[A] Unit.1 Interview

Topic for Discussion

1. Interview ka taaruf
2. Interview ki quismen
3. Interview ki technique
4. Interview ki tahreer

[B] Press Conference

Topic for Discussion

1. Press Conference ka taaruf
2. Press conference ki zaroorat –o- ahmiyat
3. Press conference me nama nigar ki zimmedariya

[C] Unit 2 C.A. (Continuous Assessment)

- 1) Class Test during the third semester for 15 Marks each.
- 2) Presentation 10 Marks

Prescribed Books:

- 1) Functional Urdu
Dr.Hameedullah Khan, Meraj Publication Parbhani
- 2) Rahbar-e-akhbar nawesi
By Syed Iqbal Quadri



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड— ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

Established on 17th September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



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मानवविज्ञान विद्याशाखेतील पदवी
स्तरावरील द्वितीय वर्षाचे CBCS Pattern
नुसारचे अभ्यासक्रम शैक्षणिक वर्ष
२०१७-१८ पासून लागू करण्याबाबत.

परिपत्रक

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ३ मे २०१७ रोजी संपन्न झालेल्या ३८व्या मा. विद्या परिषद बैठकीतील विषय क्र.१२४/३८-२०१७ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील द्वितीय वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१७-१८ पासून लागू करण्यात येत आहेत.

- १) बी.ए./बी.कॉम./बी.एस्सी.—इंग्रजी (अनिवार्य, द्वितीय भाषा अतिरिक्त, ऐच्छिक)—द्वितीय वर्ष
- २) बी.ए.—हिंदी (ऐच्छिक)—द्वितीय वर्ष
- ३) बी.ए./बी.कॉम./बी.एस्सी.—कन्नड (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ४) बी.ए./बी.कॉम./बी.एस्सी.—मराठी (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ५) बी.ए./बी.कॉम./बी.एस्सी.—पाली (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ६) बी.ए./बी.कॉम./बी.एस्सी.—संस्कृत (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ७) बी.ए./बी.कॉम./बी.एस्सी./बी.एफ.ए./बी.एस.डब्ल्यू—उर्दू (द्वितीय भाषा, ऐच्छिक)—द्वितीय वर्ष
- ८) बी.ए.—फॅशन डिझाईन—द्वितीय वर्ष
- ९) बी.ए.—अर्थशास्त्र—द्वितीय वर्ष
- १०) बी.ए.—भूगोल—द्वितीय वर्ष
- ११) बी.ए.—इतिहास—द्वितीय वर्ष
- १२) बी.ए.—मानव हक्क—द्वितीय वर्ष
- १३) बी.ए.—ग्रंथालय व माहितीशास्त्र—द्वितीय वर्ष
- १४) बी.ए.—जनसंवाद व पत्रकारिता—द्वितीय वर्ष
- १५) बी.ए.—सैनिकशास्त्र—द्वितीय वर्ष
- १६) बी.ए.—तत्त्वज्ञान—द्वितीय वर्ष
- १७) बी.ए.—राज्यशास्त्र—द्वितीय वर्ष
- १८) बी.ए.—मानसशास्त्र—द्वितीय वर्ष
- १९) बी.ए.—लोकप्रशासन—द्वितीय वर्ष
- २०) बी.ए.—समाजशास्त्र—द्वितीय वर्ष

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक—०१/परिपत्रक/पदवी—सीबीसीएस अभ्यासक्रम/
२०१६-१७/८४

दिनांक : ०७.०६.२०१७.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, यू.जी.सी. कक्ष, प्रस्तुत विद्यापीठ.

स्वाक्षरित / —

उपकुलसचिव

शैक्षणिक (१—अभ्यासमंडळ) विभाग



**SWAMI RAMANAND TEERTH
MARATHWADA UNIVERSITY, NANDED**

FACULTY OF ARTS

SYLLABUS OF URDU

B.A. 2nd Year

B.A., B.Sc., B.Com. B.F.A. and B.S.W.

(Second Language)

B. A. (Optional)

Semester + CBCS Pattern

Semester III & IV

With effect from June 2017

**Distribution of Credits for
B.A., B.Sc., B.Com. B.F.A. and B.S.W. (Second Year)
Urdu (Second Language)
Semester +CBCS Pattern
Semester III & IV Paper – III & IV
Effective from June 2017**

Semester	Paper	Name of the Course	LectureP er Week	Total Periods	Internal Evaluati on (C.A.)	Marks Of Semester ESE	Total Marks	Credits
III	III	Urdu Second Language	04	55	35	40	75	03
IV	IV	Urdu Second Language	04	55	35	40	75	03

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
Distribution of Credits for B.A., B.Sc., B.Com. B.F.A. and B.S.W. (Second Year)

Urdu (Second Language)

Semester +CBCS Pattern

Semester III Paper – III

W.E.F. June 2017

Credits -03

(Theory-30 MCQ 10= Total 40)

[A] UNIT1 NASR :	Periods 20	Marks 20
1. Kutte.-	Pitras Bukhari	
2. Apni Madad Aap -	Sir Syeed	
3. Namak Ka Darogha -	Premchand	
4. Nazeer Ahmed Ki Kahani -	Farhatullah Baig	
5. Achchi Kitab -	Abdul Haque	
6. Shairi Kya Hai -	Shibli Nomani	
7. Ek Khat -	Abdul Kalam Azad	
8. Haali -	Aal Ahmed Suroor	
[B] UNIT 2 GHAZAL:	Periods 25	Marks 20
I. Wali		
1) Kiya Tujh Ishq Ne Zalim Kharab Ahista Ahista		
2) Ishq Mein Sabr-O-Raza Darkar Hai		
II. Aatish		
1) Sun to Sahi Jahan Mein Hai Tera Fasana Kya		
2) Yeh Arzoo Thi Tujhe Gul Ke Rubaru Karte		
III. Hasrat		
1) Dil Mein Kya Kya Hawas-E-Deed		
2) Bhulata Lakh Hoon Lakin		

IV. Fani

- 1) Shouq Se Nakami Ki Badolat
- 2) Ek Moamma Hai Samajhne Ka Na Samjhane Ka

V. Faiz

- 1) Rang Pairahan Ka Khushbu Zulf Lahrane Ka
- 2) Gulon Mein Rang Bhare Bade Nou Bahar Chale

VI. Meer Taqui Meer

- 1) Rang Kheenche tha daag khaye the
- 2) Meer Darya Hai Sune Shair Zaban us ki

VII. Firaque Gorakhpuri

- 1) Sar Main Sauda bhi Nahin Dil mein tamanna bhi Nahin
- 2) Na jaane Ashk se Aankhon mein Kyun Hain Aae- Huwe

C. UNIT 3 C.A. (Continuous Assessment)

Periods 10

Marks 35

- 1) Two (02) Class Test during the Third Semester for 10 Marks each.
- 2) One (01) Assignment during the Third Semester for 10 Marks each.
- 3) Performance 05 Marks

Text Book:

Meyar-E-Adab by Surrayya Hussain Published by Educational Book House, Aligarh

Paper Pattern

Credits -03

(Theory-30 MCQ 10= Total 40)

Q.1] Reference to Context from Nasr and Ghazal (Any two out three)	10
Q.2] One long answer type question from 'Nasr' with internal option.	10
Q.3] One long answer type question on prescribed 'Poet and his poetry' with internal option.	10
Q.4] M.C.Q. on whole syllabus.	<u>10</u>
Total	<u>40</u>

C.A. (Continuous Assessment)

Marks 35

- 1) Two (02) Class Test during the Third Semester for 10 Marks each.
- 2) One (01) Assignment during the Third Semester for 10 Marks each.
- 3) Performance 05 Marks

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
Distribution of Credits for B.A., B.Sc., B.Com. B.F.A. and B.S.W. (Second Year)
Urdu (Second Language)
Semester +CBCS Pattern
Semester IV Paper – IV
W.E.F. June 2017

Credits -03

(Theory-30 MCQ 10= Total 40)

- | | | | |
|-----------|---|-------------------|-----------------|
| 1. | Unit: 1 [A] Rudad Nigari | Periods 05 | Marks 20 |
| 1. | Rudad Nigari Ki Tareef, Waqyathi Rudad Nigari, | | |
| 2. | Muqtasar Rudad Nigari, Tauzihi Rudad Nigari | | |
| | [B] Radio Feature | Periods 10 | |
| 1. | Feature ki Tareef | | |
| 2. | Radio Feature Ki Tareef, Feature Aur Haqeeqat-Nigari, | | |
| 3. | Radio Feature Aur Radio Drama | | |
| 2. | Unit: 2 [A] Quwaid | Periods 20 | Marks 20 |
| | [A] Ilm-e- Bayan [B] Harf Ki Tareef | | |
| 1. | Harf Ki Qismain (Harf-E-Rabt, Harf-E-Ataf, Harf-E-Taqsees, Harf-E-Fajaiya Mai Misalein) | | |
| | [C] Sifat Ki Tareef | | |
| 1. | Sifat Ki Qismein, Sifat-E-Zaati, Sifat-E-Nisbati, Sifat-E-Miqdari, Sifat-E-Zameeri
mai Misaleien | | |
| | [D] Mohawaray Aur Zarb-UI-Misal | | |
| | [E] Sabekhe Aur Lahekhe | | |
| 3. | [B] Computer | Period 10 | |
| | [A] Computer Key Ahekamaat | | |
| | [B] Disk Kya Hai? | | |
| | [C] Digital Camera | | |
| | [D] Computer Ki Sakht | | |

4. Unit 3 C.A. (Continuous Assessment)

Periods 10

Marks 35

- 1) Two (02) Class Test during the Third Semester for 10 Marks each.
- 2) One (01) Assignment during the Third Semester for 10 Marks each.
- 3) Performance 05 Marks

Text Books:

1. Functional Urdu
Co-ordinator, Dr. Sayyed Shujaut Ali,
Yeshwant College, Nanded
2. Functional Urdu
Edited by Prof. Mir Turab Ali,
Meraj Publication, Parbhani

Paper Pattern

Credits -03

(Theory-30 MCQ 10= Total 40)

Q.1] One long answer type question from Rudad Nigari with internal option	10
Q.2] One long answer type question from 'Radio Feature' with internal option.	10
Q.3] One long answer type question on prescribed 'Qawaid and Computer' with internal option	10
Q.4] M.C.Q. on whole syllabus.	<u>10</u>
Total	<u>40</u>

C.A. (Continuous Assessment)

Marks 35

- 1) Two (02) Class Test during the Third Semester for 10 Marks each.
- 2) One (01) Assignment during the Third Semester for 10 Marks each.
- 3) Performance 05 Marks

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Distribution of Credits for B.A. (Second Year)

Urdu (Optional)

Semester III & IV +CBCS Pattern Structure

W.E.F. June 2017

Credits -03(Theory-30 MCQ 10= Total 40)

Semester	Core Course	Paper	Name of the Course	Lecture Per Week	Total Periods	Internal Evaluation (C.A.)	Marks Of Semester ESE	Total Marks	Credits
III	Urdu	V	Inshaiya aur Drama	04	55	35	40	75	03
	Urdu	VI	Marsiya aur Rubai	04	55	35	40	75	03
	SEC-I		Translation	03	45	25	25	50	02
	Total			11	155	95	105	200	08
IV	Urdu	VII	Khaka Aur Swaneh Nigari	04	55	35	40	75	03
	Urdu	VIII	Nazm Aur Jadeed Gazal	04	55	35	40	75	03
	SEC-II		Interview	03	45	25	25	50	02
	Total			11	155	95	105	200	08
	Grand Total Sem.III & IV			22	310	190	210	400	16

SEC: Skill Enhancement Course

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Distribution of Credits for B.A. (Second Year)

Urdu (Optional)

Semester +CBCS Pattern Structure

W.E.F. June 2017

Semester III Paper - V

Inshaiya aur Drama

Credits -03(Theory-30 MCQ 10= Total 40)

[A] Unit.1 Inshaiya

Periods 20

Marks 20

Topic for Discussion

1. Inshaiya ki Tareef
2. Inshaiya Ka Fun
3. Inshaiya Ka Agaz-O-Irteqa
4. Critical Review of Prescribe Text

Detailed Study of the Following:

1. Ummid ki khushi -Sir syed Ahmed Khan
2. Gulshan-e- Umid Ki Bahaar - Md. Hussain Aazad .
3. Miss Chidiya Ki Kahani - Khaja Hasan Nizami
4. Oonh- Mirza farhatullah Baig
5. Padiye Gar Bimar - Mushtaq Ahmed Yousufi
6. Birj Banu - Kanihya Lal Kapoor

B] Unit.2 Drama

Periods 25

Marks 20

Topic for Discussion

1. Drama Ki Tareef aur Ahmiyat
2. Drama Ka Agaz-O-Irteqa

3. Drama Kay Ajzai Tarkeebi
4. Drama Ki Qismein 5. Critical Review of Prescribed Drama

Detailed Study of the Following Drama's

1. Talash - Imtiyaz Ali Taj
2. Mahel Sara - Dr. Mohd. Hasan
3. Jonk - Upendranath Ashk
4. Rustum-o-Sahrab - Aga Hashar Kashmiri
5. Kheti – Prof. Mujeeb Ahmed

C. Unit 3 C.A. (Continuous Assessment)

Periods 10

Marks 35

- 1) Two (02) Class Test during the Third Semester for 10 Marks each.
- 2) One (01) Assignment during the Third Semester for 10 Marks each.
- 3) Seminar/Performance 05 Marks

Prescribed Books:

1. Khaka, Inshaiye aur Drama,
Edited by Mohd. Qasim Siddiqui
Published by Educational Book House, Aligarh
2. Urdu Afsane, Inshaiye aur Drame Edited by Mohd. Qasim Siddiqui
Published by Educational Book House, Aligarh
3. Inshaiya aur Inshaiye.
By Syed Mohammed Husnain
Published by Educational Book House, Aligarh

Paper Pattern

Credits -03

(Theory-30 MCQ 10= Total 40)

Q.1] Reference to the context from Inshaiya and Drama (any two out of four)	10
Q.2] One long answer type question from 'Inshaiya' with internal option.	10
Q.3] One long answer type question on prescribed 'Drama' with internal option	10
Q.4] M.C.Q. on whole syllabus.	<u>10</u>
Total	<u>40</u>

C.A. (Continuous Assessment) Marks 35

- 1) Two (02) Class Test during the Third Semester for 10 Marks each.
- 2) One (01) Assignment during the Third Semester for 10 Marks each.
- 3) Performance 05 Marks

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

B.A. (Second Year)

Urdu (Optional)

Semester +CBCS Pattern Structure

W.E.F. June 2017

Semester – III Paper - VI

Marsiya aur Rubai

Credits -03

(Theory-30 MCQ 10= Total 40)

[A] Unit-1 Marsiya :-

Periods 20

Marks 20

- Tareef – Fun, Ajzai Tarkeebi, Agaz-O-Irteqa, Marsia Ki Qismein
1. Hazrat-E-Hoor Ki Shahadat (Marsiya-E-Anees Ibtadai 10 Band)
 2. Shahadat-E-Imam-E-Hussain (Marsiya-Dabeer Ibtadai 10 Band)
 3. Marsiya-E-Galib - Khaja Altaf Hussain Haali (Page No. 109-112)
 4. Marsiya-E-Haali - Safi Lokhnavi (Page No. 113-115)

Prescribed book:

Khayaban-E-Adab (Hissa-e-Nazm)

By Azeem-ul-Haque Junedi,

Educational Book House, Aligarh

[B] Unit-2 Rubai:-

Periods 25

Marks 20

- Tareef – Hayat, Agaz-O-Irteqa, Rawan, Amjad, Josh aur Firaque ki Rubai Goi
1. Jagat Mohan Lal Rawan 1,2,3,4
 2. Amjad Hyderabad 1,2,3,4
 3. Josh Malihabadi 1,2,3,4
 4. Firaque Gorakhpuri 1,2,3,4
 5. Khaja Altaf Hussain Haali 1,2,3,4
 6. Akbar Ilahbadi 1,2,3,4

[C] Unit 3 C.A. (Continuous Assessment)

Periods 10

Marks 35

- 1) Two (02) Class Test during the Third Semester for 10 Marks each.
- 2) One (01) Assignment during the Third Semester for 10 Marks each.
- 3) Seminar/Performance 05 Marks

Prescribed book:

Khiyaban-E-Adab By Azeem-ul-Haque Junedi

Educational Book House, Aligarh

Paper Pattern

Credits -03

(Theory-30 MCQ 10= Total 40)

Q.1] Reference to the context from Marsiya (any two out of three)	10
Q.2] One long answer type question from 'Marsiya' with internal option.	10
Q.3] One long answer type question on 'Rubai' with internal option. with internal option	10
Q.4] M.C.Q. on whole syllabus.	<u>10</u>
Total	<u>40</u>

C.A. (Continuous Assessment) Marks 35

- 1) Two (02) Class Test during the Third Semester for 10 Marks each.
- 2) One (01) Assignment during the Third Semester for 10 Marks each.
- 3) Performance 05 Marks

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

B.A. (Second Year)

Skill Enhancement Courses

Semester +CBCS Pattern Structure

W.E.F. June 2017

Semester – III Paper - I

Translation (SEC-I)

Credits -02(Theory-20 MCQ 05= Total 25

Internal Test Marks 15 Presentations 10=25

[A] Unit.1 Tarjuma

Periods 10

Marks 10

Topic for Discussion

1. Tarjume ka Fan aur us ki Qismen
2. Tarjume ki Riwayat o Ahmiyat
3. Tarjume ke Usool o Nazriyat
4. Translation a paragraph from English to Urdu & Urdu to English

[B] Detailed Study of the Following:

Periods 25

Marks 15

1. Tarjume ki Ahmiyat
2. Tarjuma Ek Fun
3. Tarjume ke masayel

C. Unit 2 C.A. (Continuous Assessment)

Periods 10

Marks 25

- 1) Class test during the Third Semester for 15 Marks each.
- 2) Presentation 10 Marks

Prescribed Books:

- 1) Functional Urdu

Prof.Meer Turab Ali,Meraj Publication Parbhani

2. Tarjume ka Fun Aur Riwayat by Dr.Qamer Rayees
Published by Educational Book House, Aligarh

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

B.A. (Second Year)

Urdu (Optional)

Semester +CBCS Pattern Structure

W.E.F. June 2017

Semester – IV Paper - VII

Khaka Aur Swaneh Nigari

Credits -03

(Theory-30 MCQ 10= Total 40)

Topic for Discussion

[A] Unit-1 Khaka	Periods 25	Marks 20
Khaka Ki Tareef, Ahmiyat, Khaka Ka Agaz-O-Irtekha, Critical Study of Prescribed Khake		
Detailed Study of the Following Khaka:		
1. Mohsin-ul-Mulk-By Maulvi Abdul Haque		
2. Maulana Mohammed Ali Marhoom-By Maulvi Abdul Haque		
3. Vakil Sahab-By Rasheed Ahmed Siddiqui		
4. Lamba Aadmi (Kanihya Lal Kapoor) By Mujtaba Hussain		
5. Yadon Main Basa Aadmi (Maqdoom Mohiuddin) By Mujtaba Hussain		
[B] Unit-2 Sawaneh Nigari :	Periods 20	Marks 20
1. "Mirza Ghalib Ke Aqlaq-o-Aadat-o-Khiyalat" (Page.72 to 87) By Altaf Hussain Hali		
2. "Yadgaar-e- Hali" (Page-24 to 44) By.Saleha Abid Hussain.		
[C] Unit 3 C.A. (Continuous Assessment)	Periods 10	Marks 35
1) Two (02) Class Test during the Third Semester for 10 Marks each.		
2) One (01) Assignment during the Third Semester for 10 Marks each.		
3) Seminar/Performance 05 Marks		

Prescribed Books:

1. Khaka, Inshaiya, Drama Aur Afsane Edited By: Mohd. Qasim Siddiqui
Educational Book House, Aligarh
2. Aadmi Nama By Mujtaba Hussain Husami Book Depot. Hyderabad.
3. Intekhab-e- Urdu Nasr(1920 ke baad) Dr.Masood Alam -Educatioal Book House,Aligarh.
4. Chand Humasr - by Moulvi Abdul Haque.-Anjuman Taraqqu-e-Urdu Hind –Delhi
5. Yadgar-e-Ghalib By.Altaf Hussain Hali-Educational Book House,Aligarh
6. Yadgar-e- Hali By Saleha Abid Hussain- Anjuman Taraqqu-e-Urdu Hind -Delhi

Paper Pattern

Credits -03

(Theory-30 MCQ 10= Total 40)

Q.1] Reference to the context from khaka aur Sawaneh (any two out of three)	10
Q.2] One long answer type question from 'Khaka' with internal option.	10
Q.3] One long answer type question on 'Sawaneh' with internal option.	10
Q.4] M.C.Q. on whole syllabus.	<u>10</u>
Total	<u>40</u>

C.A. (Continuous Assessment) Marks 35

- 1) Two (02) Class Test during the Third Semester for 10 Marks each.
- 2) One (01) Assignment during the Third Semester for 10 Marks each.
- 3) Performance 05 Marks

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

B.A. (Second Year)

Urdu (Optional)

Semester +CBCS Pattern Structure

W.E.F. June 2017

Semester – IV Paper - VIII

Nazm Aur Jadeed Gazal

Credits -03 (Theory-30 MCQ 10= Total 40)

[A] Unit-1 Nazm :	Periods 25	Marks 20
Topic for Discussion		
Nazm Ki Tareef - Nazm Ka Aagaz-o-Irtequa, Nazm Ki Qismein - Azad Nazm, Nazm-e-Moarra		
Detailed Study:		
1. Syed ki Ioh-e-turbat- Allama Iqbal		
2. Chand Taron Ka Ban - Maqdoom Mohiuddin		
3. Tabdeeli - Akhtar-ul-Imaan		
4. Kisaan – Josh Malihabadi		
5. Mazdoor Ka Mehman - Ehsan Danish		
6. Subh-e-Azadi - Faiz Ahmad Faiz		
7. Nagm-E-Zindagi - Akhtar Shirani		
8. Tuta Hua Sitara - Ali Sardar Jafri		
[B] Unit-2 - Jadeed Gazal	Periods 20	Marks 20
Topics for Discussion:		
Jadeed Gazal Ki Tareeqe, Jadeed Gazal Ki Mauzuat		

Detailed Study:

1. HALI: 1. Koi Mohram Nahin Milta jahan Main
2. Buri Aur Bhali Sab Guzar Jaygi
2. IQBAL: 1. Sitaron Se Aage Jahan Aur Bhi Jahan
2. Tu Abhi Rah Guzr Main Hay
3. DAAG: 1. Uzar Aane Main Bhi Hai Aur Bulate Bhi Nahin
2. Saaz Yeh Kinasaz Kya Janen
- 4 .JAZBI: 1. Marne Ki Duwayen Kyun Mangoon
2. Jab Kabhi Kisi Gul Par
5. NASIR KAZMI:
1. Kuch Yaadgar-e- Shahar-e-Sitamgar
2. Dayar-e-Dil Ki Raat Main

[C] Unit 3 C.A. (Continuous Assessment)**Periods 10****Marks 35**

- 1) Two (02) Class Test during the Third Semester for 10 Marks each.
- 2) One (01) Assignment during the Third Semester for 10 Marks each.
- 3) Seminar/Performance 05 Marks

Prescribed Books:

- 1 Inteqab –E- Urdu Shairi 1920 kay baad.
Edited by – Abul Kalam Qasmi. Educational Book House ,Aligarh
2. Khayaban –E- Adab (Part –I, II)
Edited by –Azeem-UI- Haque Junedi. Educational Book House ,Aligarh

Paper Pattern

Credits -03

(Theory-30 MCQ 10= Total 40)

Q.1] Reference to the context from Ghazal (any two out of four)	10
Q.2] One long answer type question from 'Ghazal' with internal option.	10
Q.3] One long answer type question from 'Nazm' with internal option.	10
Q.4] M.C.Q. on whole syllabus.	<u>10</u>
Total	<u>40</u>

C.A. (Continuous Assessment) Marks 35

- 1) Two (02) Class Test during the Third Semester for 10 Marks each.
- 2) One (01) Assignment during the Third Semester for 10 Marks each.
- 3) Performance 05 Marks

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

B.A. (Second Year)

Skill Enhancement Courses

Semester +CBCS Pattern Structure

W.E.F. June 2017

Semester – IV Paper - II

Interview and Press Conference (SEC-II)

Credits -02(Theory-20 MCQ 05= Total 25

Internal Test Marks 15 Presentations 10=25

[A] Unit.1 Interview

Periods 10

Marks 10

Topic for Discussion

1. Introduction of Interview
2. Introduction of Press Conference
3. Kinds of Interviews
4. Critical Review of Prescribed Text

[B] Detailed Study of the Following:

Periods 25

Marks 15

1. Technique of Interviews
2. Language of Interviews
3. Importance of Interviews and press conference
4. Personal Interviews

C. Unit 2 C.A. (Continuous Assessment)

Periods 10

Marks 25

- 1) Class Test during the Third Semester for 15 Marks each.
- 2) Presentation 10 Marks

Prescribed Books:

- 1) Functional Urdu
Prof.Meer Turab Ali, Meraj Publication Parbhani
- 2) Article: Dr.Shahed Parvez, Regional Director Delhi, MANUU, Delhi

॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

“Dnyanteerth”, Vishnupuri, Nanded - 431606 Maharashtra State (INDIA)

Established on 17th September 1994 – Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



ACADEMIC (1-BOARD OF STUDIES) SECTION

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संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे CBCS Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ३० एप्रिल २०१९ रोजी संपन्न झालेल्या ४३व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.९/४३-२०१९ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचा खालील विषयाचा **C.B.C.S. (Choice Based Credit System) Pattern** नुसारचा अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्यात येत आहे.

१) बी.ए.—प्रथम वर्ष—कन्नड (द्वितीय भाषा, ऐच्छिक)

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेत-स्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,
विष्णुपुरी, नांदेड — ४३१ ६०६.
जा.क्र.: शैक्षणिक—०१ / परिपत्रक / पदवी—सीबीसीएस
अभ्यासक्रम / २०१९—२० / ७०
दिनांक : १७.०६.२०१९.



स्वाक्षरित /—
उपकुलसचिव
शैक्षणिक (१—अभ्यासमंडळ) विभाग

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) साहाय्यक कुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) उपकुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

Swami Ramanand Teerth Marathwada University, Nanded

Distribution of credits for

B.A., B.Sc. & B.Com. First Year

Kannada S.L. (Second Language)

Semester + CBCS Pattern

Semester I, II

Paper-I, II

w.e.f. June 2019

Sr. No	Semester	Course	Paper No.	Name of the Paper	Lectures/ Week	Total No. of Periods	Internal Evaluation (CA)	ESE (Marks of Semester)	Total Marks	Credits
1	Sem-I	CC Kan (SL)	I	Kannada Poetry	04	55	35	40	75	03
2	Sem-II	CC Kan (SL)	II	Kannada Novel	04	55	35	40	75	03
	Total				08	110	70	80	150	06

Swami Ramanand Teerth Marathwada University, Nanded

**Distribution of credits for
B.A., B.Sc. & B.Com First Year
Kannada (Optional)
Faculty of Humanities (Arts)
Semester + CBCS Pattern**

Semester I, II

Paper-I, II

w.e.f. June 2019

Sr. No	Semester	Course	Paper No.	Name of the Paper	Lectures/Week	Total No. of Lectures Periods	Internal Evaluation (CA)	ESE (Marks of Semester)	Total Marks	Credits
1	Sem-I	CCKann (Opt.)	I	Old Kannada Literature	04	55	35	40	75	03
		CCKann (Opt.)	II	Short Story	04	55	35	40	75	03
	Total				08	110	70	80	150	06
2	Sem-II	CCKann (Opt.)	III	Modern Kannada Prose	04	55	35	40	75	03
		CCKann (Opt.)	IV	Medieval Kannada Poetry	04	55	35	40	75	03
	Total				08	110	70	80	150	06
	Grand Total				16	220	140	160	300	12

**B.A., B.SC. & B.COM. FIRST YEAR
Kannada S.L. (Second Language)
Semester-I**

Paper – I : Modern Kannada Poetry

Credit : 03

Marks : 75

Theory ESE – 40+CA 35=75

Unit-I

- Topic for discussion
- Kuvempu poems, Devaru Ruju Madidaru
- Varsha Bairava, Bala Vidhave, Jenaguva, Aniketana
- Bharat Bhumi Nannatai, Holada Hudugi, Pancha Janya

Unit-II

- Puti Narsimhacharya Poems, Maleya Nada toyutire
- Kaniveya Muduka Valumenamma Hanate, Navirangi
- Bhavikya Hesare

Unit-III

- G.S. Shivarudrappa poems, Devashilpa, Mabhinidn Mabhinge
- Purusha sukta, Shtri, Mumbai Jatuka Nanna Sutta
- Avaste, Yava Hadu Hadali

Unit-IV

- V.K. Ghokak, Huva, Saleel Leele, Ganiyalin
- Matu, Bharat Rashtra, Pujari
- Kogile Manava Kul Akhanda
- Meeni gavamagalia

Unit-V

- Continuous Assessment (C.A.)
 - 1) Two class tests during the first semester for 10 marks each. 10x2=20
 - 2) One assignment during the first semester 15 marks.
- **Prescribed book :**
 - 1) Kavyamanjari Edited by Dr.D.B. Nayak
 - 2) Samakalin Kannada Kavitegulu – Modern Kannada Poetry (Kuvempu)

**B.A. FIRST YEAR
Kannada (Optional)
Semester-I**

Paper – I : Old Kannada Literature

Credit : 03

Marks : 75

Theory ESE – 40+CA 35=75

Unit – I

- Kannada Sahitya ugama vikas, mahatva
- Background study of old kannada literature

Unit – II

- Pump purwa yuga, vaddaradhane, Kaviraj Marga

Unit – III

- Pump yugada Rupareshe Ratnatrayaru Nagachandra Samlakin kavigalu

Unit – IV

- Basavayugada Rupareshegalu, Pramukh Vachankarru Harihara Raghavaka, Padmarasa, Nemichandra

Unit-V

- Continuous Assessment (C.A.)
 - 1) Two class tests during the first semester for 10 marks each.
 - 2) One assignment during the first semester 15 marks.

- **Prescribed book :**

- 1) Kannada Sahitya Charitre – R.S. Mugli

B.A. FIRST YEAR
Kannada (Optional)
Semester-I

Paper – II : Modern Kannada Literature : Short Story

Credit : 03

Marks : 75

Theory ESE – 40+CA 35=75

Unit – I

- Kannada short story ugama vikas swarupa Laxan Prakar short story
Beladu Banda Bage

Unit – II

- Short story of Sugayya Hiremath's, Unonguru, Kusti, Kungal Mundan
Kattale Patravillada Nataka

Unit – III

- Kannada Sahityagali Prabandhagala Ugama, Vikas, Mahatva

Unit – IV

- Prabanda, Mysur Roomalu, Tereda Mana, Pritiya Mimanse Pinchaniya
Labhangalu

Unit-V

- Continuous Assessment (C.A.)
 - 1) Two class tests during the first semester for 10 marks each.
 - 2) One assignment during the first semester 15 marks.
- **Prescribed book :**
 - 1) Aaida Lalit Prabandaglu – Dr. Jayadevi Teli
 - 2) Kungal Mundan Kattale-Prof.Sugayya Hiremath

**B.A., B.SC. & B.COM. FIRST YEAR
Kannada S.L. (Second Language)
Semester-II**

Paper – II : Modern Kannada Novel

Credit : 03

Marks : 75

Theory ESE – 40+CA 35=75

Unit – I

- Meaning of Kannada Kadambari, Kadambariya Ugama, Vikas, Swarup Laxan, Vaishistya, Beledubanda Bage

Unit – II

- Kadambariya Prakaragalu Navodaya Purwa, Arunodaya Pramukh Kadambarikarru

Unit – III

- Kadaliya Karpur Kadabariya Mahatwa, Guruling Devaru, Akkamahadevi Janana Balya

Unit – IV

- Akkamahadevi Jeevan Pooja Vidhi Diksha, Kaushik Raja, Vivrane, M-Chidanand Murti

Unit-V

- Continuous Assessment (C.A.)
 - 1) Two class tests during the first semester for 10 marks each. 10x2=20
 - 2) One assignment during the first semester 15 marks.
- **Prescribed book :**
 - 1) Kadaliya Karpur – H. Tipperudra Swami
 - 2) Hosagannada Sahitya Charitre – L.S. Sheshagiri Rao
 - 3) Hosagannada Arunodaya-Shrinivas Havnur

**B.A. FIRST YEAR
Kannada (Optional)
Semester-II**

Paper – III : Modern Kannada Prose

Credit : 03

Marks : 75

Theory ESE – 40+CA 35=75

Unit – I

- Hosagannada Sahitya Ugam, Vikas, Mahatva
- D.R. Bendre, Girish Karnad, U.R. Anant Murthy

Unit – II

- Govind Pai, Masti Venkatesh Ayangar, Shivram Karant

Unit – III

- G.P. Rajratnam, Channaveer Kanavi, Shantadevi Malavad

Unit – IV

- K.S. Narashima Swarmi, Gopal Krushna Adig, H. Tipperudra Swami,
M.M. Kalburgi, Siddaya Puranik

Unit-V

- Continuous Assessment (C.A.)
 - 1) Two class tests during the first semester for 10 marks each. 10x2=20
 - 2) One assignment during the first semester 15 marks.

- **Prescribed book :**

- 1) Hosagannada Sahitya Charitre – L.S. Sheshagiri Rao
- 2) Adhunika Kannada Sahitya Charitre
- 3) Kannada Sahitya Chritre-R.S. Mugli
- 4) Kannada Kulodeepkaru-Dr. G.D. Joshi

**B.A. FIRST YEAR
Kannada (Optional)
Semester-II**

Paper – IV : Medieval Kannada Poetry

Credit : 03

Marks : 75

Theory ESE – 40+CA 35=75

Unit – I

- Kannada Kirtanagalu, Beledu banda bage Ugam, Vikas, Mahatva, Tatwa Padad Artha Parampare Kanakdayar Kirtangulu

Unit – II

- Shripadarajara, Kirtanegulu, Uttamar Sang Yengittu Salaho, Palogaddu Neerolagaddy Mosahodenalla

Unit – III

- Purandardasar Kirtanegalu Agnaynigul Kuda Adhik Snehakinta, Aadadella Olleyedde aitu, Esabeku Iddu Jaisaburu

Unit – IV

- Vyasarayaru, Antarangaddi Hariya Kanadav Dasarendare Purandardasarayya, Nambi Kettavaisharila Rangayya

Unit-V

- Continuous Assessment (C.A.)
 - 1) Two class tests during the first semester for 10 marks each. 10x2=20
 - 2) One assignment during the first semester 15 marks.
- **Prescribed book :**
 - 1) Kirtane Tatvapadagala Sangrah- Dr.Vasudev Agnihotri
 - 2) Das Sahitya – M.M. Kalburgi

Swami Ramanand Teerth Marathwada University, Nanded

B.A., B.Sc. & B.Com First Year (SL)

B.A. First Year (Optional)

Sem-I, II

Question Paper Pattern

Q.	1)	Essay type, long answer with internal choice question.	15
Q.	2)	Essay type, long answer with internal choice question.	15
Q.	3)	Short Notes (Write any one from both A and B)	10
	a)	1)	
		2)	
	b)	1)	
		2)	40

• Continuous Assessment (C.A.)

- 1) Two class tests during the first semester for 10 marks each. $10 \times 2 = 20$
 - 2) One assignment during the first semester 15 marks.
- 75**



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
SEMESTER PATTERN CURRICULUM UNDER
CHOICE BASED CREDIT SYSTEM (CBCS) FOR

Faculty of Science
Under Graduate (UG) Programmes

SUBJECT: BOTANY

CLASS: B.Sc. SECOND YEAR

CURRICULUM DESIGNING COMMITTEE

- | | |
|---|----------|
| 1. Dr. Bodke S.S.
Yeshwant Mahavidyalaya, Nanded | Chairman |
| 2. Dr. (Mrs.) S.G. Pillai
Shivaji Mahavidyalaya, Parbhani | Member |
| 3. Dr. Mandge S.V.
Shri. SGM College, Loha | Member |



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SUBJECT: BOTANY
CLASS: B.Sc. SECOND YEAR
INTRODUCTION

The SRTMUN is gearing up for several initiatives towards academic excellence, quality improvement and administrative reforms. In view of this priority and in-keeping with Vision and Mission; process was already initiated towards introduction of semester system, grading system and credit system. In the recent past, University had already implemented Credit based grading system to campus schools and Choice Based Credit System (CBCS) pattern for PG in all the affiliated colleges from the academic year **2014-2015**. These regulations shall be called as Choice Based Course Credit System & Grading, 2014. In short it will be referred as **SRTMUN CBCS REGULATION**.

Now University is going one step ahead to implement Choice Based Credit System (CBCS) pattern at UG level from the academic year **2016-2017** progressively for B.Sc. first year, second year and third year respectively. Revision and updating of the curriculum is the continuous process to provide an updated education to the students at large. Presently there is wide diversity in the curriculum of different Indian Universities which inhibited mobility of students in other universities or states. To ensure and have uniform curriculum at UG and PG levels as per the **SRTMUN CBCS REGULATION**, curriculum of different Indian Universities, syllabus of NET, SET, MPSC, UPSC, Forest Services and the UGC model curriculum are referred to serve as a base in updating the same.

The B.Sc. Botany (General) semester pattern course is running in different affiliated colleges of the SRTMUN. The course content has been designed under CBCS pattern. The course content of each theory paper is divided into units by giving appropriate titles and subtitles. For each unit, total number of periods required, weight age of maximum marks and credits are mentioned. A list of practical exercises and skills for laboratory work to be completed in the academic year is also given. A list of selected reading material and a common skeleton question paper for all courses are also provided at the end of the syllabus.



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SUBJECT: BOTANY
CLASS: B.Sc. SECOND YEAR

OBJECTIVES

1. To provide an updated education to the students at large in order to know the importance and scope of the discipline and to provide mobility to students from one university or state to other.
2. To update curriculum by introducing recent advances in the subject and enable the students to face NET, SET, UPSC and other competitive examinations successfully.
3. To impart knowledge of plant science as the basic objective of Education
4. To develop a scientific attitude to make students open minded, critical and curious
5. To develop an ability to work on their own and to make them fit for the society
6. To expose themselves to the diversity amongst life forms
7. To develop skill in practical work, experiments, equipments and laboratory use along with collection and interpretation of plant materials and data
8. To make aware of natural resources and environment and the importance of conserving the same
9. To develop ability for the application of the acquired knowledge in the fields of life so as to make our country self reliant and self sufficient
10. To appreciate and apply ethical principles to plant science research and studies



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CLASS: B.Sc. SECOND YEAR

An Outline:

Semester/ Annual	Course No.	Course Name	Instruction Hrs/week	Total Periods	Marks for		Credits (Marks)
					Internal (CA)	External (ESE)	
Semester-III	CCB-III (Section-A)	Morphology and Taxonomy of Angiosperms (P-VI)	03	45	10	40	Credits: 02 (Marks:50)
	CCB-III (Section-B)	Histology, Anatomy and Embryology of Angiosperms (P-VII)	03	45	10	40	Credits: 02 (Marks:50)
Semester-IV	CCB-IV(Section-A)	Gymnosperms and Palaeobotany (P-VIII)	03	45	10	40	Credits: 02 (Marks:50)
	CCB-IV(Section-B)	Ecology and Environmental Biology (P-IX)	03	45	10	40	Credits: 02 (Marks:50)
Annual Pattern	CCBP-II	Practicals based on CCB-III (Section-A) (P-X)	03	08 Practicals	05	20	Credits: 02 (Marks:50)
		Practicals based on CCB-IV (Section-A) (P-X)	03	08 Practicals	05	20	
	SECB-I	Any one skill from optional (SECB-I)	03	45	25	25	Credits: 02 (Marks:50)
Annual Pattern	CCBP-III	Practicals based on CCB-III (Section-B) (P-XI)	03	08 Practicals	05	20	Credits: 02 (Marks:50)
		Practicals based on CCB-IV (Section-B) (P-XI)	03	08 Practicals	05	20	
	SECB-II	Any one skill from optional (SECB-II)	03	45	25	25	Credits: 02 (Marks:50)
Total Credits Semester-III and IV					Marks: 60+50= 110	Marks: 240+50= 290	Credits: 12+04=16 (Marks: 300+100 =400)

CCB: Core Course Botany, **CCBP:** Core Course Botany Practical, **ESE:** End of semester examination,

CA: Continuous Assessment, **SECB:** Skill Enhancement Course Botany

Distribution of credits: 80% of the total credits for ESE and 20% for CA

- **CA of Marks-10:** 10 marks for Test / Record Book & Viva voce
- **CA of Marks 25:** 15 for marks Seminar & 10 marks for Test

(With effect from Academic Year 2017-2018)



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SUBJECT: BOTANY

CLASS: B.Sc. SECOND YEAR

SEMESTER-III

CCB-III (SECTION-A): MORPHOLOGY AND TAXONOMY OF ANGIOSPERMS (P-VI)

Periods: 45

Credits: 02 (Maximum Marks: 50)

UNIT-I: MORPHOLOGY OF ANGIOSPERMS (10 periods)

Root: Definition, characters, types (tap root and adventitious) and functions. **Stem:** Definition, characters, modifications (stem tendril, phylloclade, tuber, rhizome, corm and runner) and functions. **Leaf:** Definition, structure of typical leaf (Hibiscus), functions, types- Simple (Hibiscus), Compound (unipinnate, bipinnate, tripinnate, unifoliate, bifoliate, trifoliate, multifoliate), venation- definition, types (reticulate, parallel), Phyllotaxy, **Inflorescence:** Definition, types- Racemose (characters), Cymose (characters), **Flower:** Definition, symmetry, actinomorphic, zygomorphic, types (hypogynous, epigynous, perigynous), structure of typical flower (Hibiscus), calyx (polysepalous, gamosepalous), corolla (polypetalous, gamopetalous), androecium (parts of a stamen), gynoecium –structure of carpel, apocarpous, syncarpous, placentation (axile, parietal, free central, marginal, basal) **Fruit:** Definition, types (true, false), forms- simple (dry, legume, fleshy, berry), aggregate (etaerio of berries), composite (sorus)

UNIT-II: TAXONOMY OF ANGIOSPERMS (10 periods)

Introduction, scope and objectives of angiosperm taxonomy, binomial nomenclature, taxonomic ranks, types of classification (artificial, natural and phylogenetic), salient features of Bentham & Hooker and Engler & Prantl's system of classification with merits and demerits

UNIT-III: STUDY OF FAMILIES-I (13 periods)

Distribution, vegetative morphology (habitat, habit, root, stem, leaf), Reproductive morphology (inflorescence, general description of flower, calyx, corolla, androecium, gynoecium, pollination, fruit) floral formula, floral diagram, systematic position (as per Bentham & Hooker's system), distinguishing characters and economic importance of plants (at least two) of the Families-**Annonaceae, Brassicaceae, Malvaceae, Meliaceae, Caesalpinaceae, Fabaceae, Apiaceae.**

UNIT-IV: STUDY OF FAMILIES-II (12 periods)

Distribution, vegetative morphology (habitat, habit, root, stem, leaf), Reproductive morphology (inflorescence, general description of flower, calyx, corolla, androecium, gynoecium, pollination, fruit), floral formula, floral diagram, systematic position (as per Bentham & Hooker's system), distinguishing characters and economic importance of plants (at least two) of the Families-**Asteraceae, Solanaceae, Euphorbiaceae, Lamiaceae, Liliaceae and Poaceae**



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SEMESTER-III

CCB-III (SECTION-B): HISTOLOGY, ANATOMY AND EMBRYOLOGY OF ANGIOSPERMS (P-VII)

Periods: 45

Credits: 02 (Maximum Marks: 50)

UNIT –I: HISTOLOGY (10 Period)

Meristematic Tissue: Definition, classification based on position and origin, Histological organization of root and shoot apices, Apical cell theory, Histogen theory and Tunica corpus theory.

Simple Tissues: Parenchyma, Collenchyma, Sclerenchyma.

Complex tissues: Xylem and Phloem.

Secretary tissues: Laticiferous tissues (Latex cells and vessels), Glandular tissues (External glands-digestive glands, nectary glands and internal glands-Oil glands, hydathodes)

UNIT II: ANATOMY (12 Period)

Vascular Bundles: Definition and types.

Primary structures:

Root anatomy of Monocotyledons (Maize) and Dicotyledons (Sunflower),

Stem anatomy of Monocotyledons (Maize) and Dicotyledons (Sunflower),

Leaf anatomy of Monocotyledons (Maize) and Dicotyledons (Sunflower),

Secondary Growth- Normal Secondary growth in root and stem of Dicotyledons (Sunflower), **Anomalous Secondary growth** in Achyranthes stem and Dracaena stem.

UNIT III: EMBRYOLOGY –I (13 Periods)

Introduction- Definition and Scope, **Microsporangium-** Structure (T.S. of typical anther), Microsporogenesis, Structure of Pollen grain, Pollination (self and cross pollination in brief), Development of male gametophyte, **Megasporangium-** Structure (L.S.of typical ovule), types of ovule

UNIT IV: EMBRYOLOGY –II (10 Period)

Megasporogenesis, Development of **Monosporic** (Polygonum type), **Bisporic** (Allium type) and **Tetrasporic** (Adoxa type) female gametophytes, **Fertilization-** Double fertilization and Significance, **Endosperm-** Definition and types (Nuclear, Cellular and Helobial endosperm) , **Embryo-** Definition, Development of Monocot and Dicot (Crucifer type) embryo, **Development of seed and Fruit** (Post fertilization changes)

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SEMESTER-IV

CCB-IV (SECTION-A): GYMNOSPERMS AND PALAEOBOTANY (P-VIII)

Periods: 45

Credits: 02 (Maximum Marks: 50)

UNIT-I: GYMNOSPERMS (10 periods)

Introduction, general characters and classification of Gymnosperms (as per D. D. Pant, 1957), Morphology of vegetative structures, anatomy of stem (primary and secondary growth) and anatomy of leaf, reproductive structures and life cycle (Developmental stages are not expected) and economic importance of ***Cycas***.

UNIT-II: PINUS (12 periods)

Morphology of vegetative structures, anatomy of stem (primary and secondary growth) and anatomy of leaf, reproductive structures and life cycle (Developmental stages are not expected) and economic importance of ***Pinus***.

UNIT-III: GNETUM (13 periods)

Morphology of vegetative structures, anatomy of stem (primary and secondary growth) and anatomy of leaf, reproductive structures and life cycle (Developmental stages are not expected), affinities and relationship with angiosperms and economic importance of ***Gnetum***.

UNIT-IV: PALAEOBOTANY (10 periods)

Introduction to palaeobotany, process of plant fossilization, types of fossils, geological time scale, Study of fossil Gymnosperms-***Lyginopteris oldhamia*** (stem), ***Bennettites*** (flower) and General characters of ***Ginkgo*** (A living fossil).

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SEMESTER-IV

CCB-IV (SECTION-B): ECOLOGY AND ENVIRONMENTAL BIOLOGY (P-IX)

Periods: 45

Credits: 02 (Maximum Marks: 50)

UNIT –I: ECOLOGICAL FACTORS (10 Periods)

Introduction-Definition of ecology and environment, divisions, fields and scope of ecology, Environmental or ecological factors- Climatic factors (Atmosphere, atmospheric humidity, light and temperature), Edaphic factor (Soil components, soil formation and soil profile)

UNIT-II: ECOLOGICAL ADAPTATIONS IN PLANTS (10 periods)

Morphological, anatomical and physiological responses of plants to water, Morphological and anatomical adaptation in Hydrophytes (Hydrilla stem and Nymphaea petiole), Xerophytes (Casuarina stem and Nerium Leaf), Halophytes (General characters)

UNIT –III: COMMUNITY ECOLOGY (13 Periods)

Community Ecology- Community characteristics, frequency, density, life forms and ecological succession (Hydrosere), analysis of plant community (quadrant method), Ecosystem- Introduction and structure (Abiotic and biotic components) of ecosystem, Pond and grassland ecosystems, Energy flow in an ecosystem, Food chain and food web, ecological pyramids.

UNIT –IV: ENVIROMENTAL BIOLOGY (12 Periods)

Biogeochemical cycles- Water and Nitrogen cycle, Pollution- Causes, effect and control measures of water, soil and air pollution, Soil erosion- Types, methods of soil conservation, Bio geographical regions of India, Aforestation, Deforestation and Chipko movement.

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**CLASS: B.Sc. SECOND YEAR
ANNUAL PATTERN**

CCBP-II: PRACTICALS BASED ON SECTION-A OF CCB-III&IV (P-X)

Practical: 16

Credits: 02 (Maximum Marks: 50)

Practical Exercises:

1. Study of Morphology of angiosperms (Root, stem, leaf, inflorescence, flower and fruit as mentioned in syllabus of theory paper-VI) **(2 practical)**
 2. Description, floral formula, floral diagram, identification and classification of at least one plant belonging to each family as mentioned in the syllabus of theory paper-VI **(8 practical)**
 3. Morphological (vegetative and reproductive) study of **Cycas**: Male cone, Megasporophyll and ovule; **Pinus**: Male cone, Female cone and Ovule; **Gnetum**: Male cone, Female cone **(2 practical)**
 4. Preparation of double stained permanent slides of Cycas pinna, Pinus needle and Gnetum stem for the study of anatomical structures **(3 practical)**
 5. Palaeobotanical study of stem of *Lyginopteris oldhamia* and flower of *Bennettites* **(1 practical)**
 6. *One short and one long Botanical excursion are compulsory (Students should submit excursion report in detail in the practical examination for evaluation. The report shall carry marks)*
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CLASS: B.Sc. SECOND YEAR
ANNUAL PATTERN

CCBP-II: PRACTICALS BASED ON SECTION-A OF CCB-III&IV (P-X)

END OF SEMESTER EXAMINATION (ESE)

Skeleton question paper

Time: Four hours

Maximum Marks: 40

Note: (i) *Attempt all questions*

(ii) *Show your preparation to the examiner*

(iii) *Draw neat and well labelled diagrams wherever necessary*

Q1. Make a double stained permanent preparation, identify and describe the anatomical structures of the given specimen-A (Cycas pinna/ Pinus needle/ Gnetum stem for specimen-A may be given alternately to the students) **(10 marks)**

Q2. Describe, identify and classify the given Plant-B (Polypetalae) with floral formulae and floral diagrams (Flowering twig of the easily available plant for specimen-B may be given alternately to the students) **(10 marks)**

Q3. Describe, identify and classify the given Plant-C (Gamopetalae) with floral formulae and floral diagrams (Flowering twig of the easily available plant for specimen-C may be given alternately to the students) **(10 marks)**

Q4. Identify and describe the spots (Morphology-2 spots, Economic Importance-2 spots, Gymnosperm/Palaeobotany-1 spot) giving reasons **(10 marks)**



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CLASS: B. Sc. SECOND YEAR
ANNUAL PATTERN**

CCBP-III: PRACTICALS BASED ON SECTION-B OF CCB-III&IV (P-XI)

Practicals: 16

Credits: 02 (Maximum Marks: 50)

Practical Exercises:

1. Study of Meristematic tissues with the help of Slides/Models/Charts/ Photocopies **(2 practical)**
2. Study of Permanent and secretory tissues with the help of Slides/Models/Charts/ Photocopies **(1 practical)**
3. Preparation of a double stained permanent slide of stem of Maize, Sunflower, Dracaena and Achyranthus for the study of internal structures **(4 practical)**
4. Study of T.S. of anther and L.S. of anatropous ovule with the help of permanent slides and models **(1 practical)**
5. Determination of minimum number of quadrants required for estimation of biomass in grassland **(2 practical)**
6. Study of frequency of herbaceous species in grassland **(1 practical)**
7. Measurement of plant biomass above the ground in grassland **(1 practical)**
8. Measurement of bulk density and porosity of soil **(1 practical)**
9. Study of morphological and anatomical structures of ecological interest in the Hydrilla stem, Nymphaea petiole, Casuarina stem and Nerium leaf **(3 practical)**
10. *One short and one long Botanical excursion are compulsory (Students should submit excursion report in detail in the practical examination for evaluation. The report shall carry marks)*



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ANNUAL PATTERN

CCBP-III: PRACTICALS BASED ON SECTION-B OF CCB-III&IV (P-XI)

END OF SEMESTER EXAMINATION (ESE)

Skeleton question paper

Time: Four hours

Maximum Marks: 40

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- Note:** (i) *Attempt all questions*
(ii) *Show your preparation to the examiner*
(iii) *Draw neat and well labelled diagrams wherever necessary*
-

- Q1.** Make a double stained permanent preparation of the given specimen-**A**. Identify and describe its internal structure. (The Maize stem / Sunflower stem / Dracaena stem / Achyranthus stem for specimen-A may be given alternately to the students) **(12 marks)**
- Q2.** Make a temporary preparation of the given specimen-B. Identify and describe its internal structures of ecological interest. (The Hydrilla stem/ Nymphaea petiole/ Casuarina stem / Nerium leaf for specimen-B may be given alternately to the students) **(10 marks)**
- Q3.** Determine minimum number of quadrants required/ frequency/ plant biomass/bulk density and porosity of soil/ with the help of data given **(10 marks)**
- Q4.** Identify and describe the given spots (Histology- 2, Embryology -1, and Ecology-1) giving reasons **(08 marks)**
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ANNUAL PATTERN

SKILL ENHANCEMENT COURSE BOTANY

SECB-I

Periods: 45

Credits: 02 (Maximum Marks: 50)

SECB-IA: MEDICINAL PLANT PRODUCT PREPARATION SKILL

UNIT-I: MEDICINAL PLANTS (6 periods)

Introduction, Definitions, Scope and Importance, Concept of active principles

UNIT-II: STUDY OF MEDICINAL PLANTS (15 periods)

Description, Identification and Classification, medicinal uses of locally available medicinal plants (Awla, Adulsa, Ginger)

UNIT-III: PRACTICALS ON MEDICINAL PLANT PRODUCT PREPARATION (8 practicals)

Preparation of Awla candy, Awla masticator (Awla supari), Adulsa syrup, Ginger syrup and cake, Visit to a production industry in nearby area (Students are expected to prepare a model of production industry, a visit report and to submit the same at the time of practical examination).

OR

**SECB-IB: FUNGAL BIOMASS PRODUCTION SKILL
(MUSHROOM CULTIVATION)**

UNIT-I: FUNGAL BIOMASS AS NON CONVENTIONAL FOOD (6 periods)

Introduction, Concept and need, Advantages, disadvantages and Sources of non-conventional food

UNIT-II: MUSHROOM (PLEUROTUS) CULTIVATION (15 periods)

Introduction, Systematic position, thallus structure and fruit body of Pleurotus, Merits of Pleurotus cultivation, Commercial cultivation of Pleurotus, Cultivation details of Pleurotus (Substrate, Soaking, Pasteurization, Spawning, Cropping, Picking and Packing, Flow chart), Pleurotus products fresh and processed

UNIT-III: PRACTICALS ON MUSHROOM (PLEUROTUS CULTIVATION) (8 practicals)

Principle, Requirement, procedure, observations, Harvesting, results and records, Visit to a Mushroom cultivation laboratory in nearby area (Students are expected to prepare a model of Mushroom cultivation laboratory, a visit report and to submit the same at the time of practical examination).

(With effect from Academic Year 2017-2018)



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
SEMESTER PATTERN CURRICULUM UNDER
CHOICE BASED CREDIT SYSTEM (CBCS) FOR
Faculty of Science
Under Graduate (UG) Programmes
SUBJECT: BOTANY
CLASS: B.Sc. SECOND YEAR
ANNUAL PATTERN
SKILL ENHANCEMENT COURSE BOTANY
SECB-II

Periods: 45

Credits: 02 (Maximum Marks: 50)

SECB-IIA: FUNGAL BIOMASS PRODUCTION FOR BIOCONTROL
(TRICHODERMA CULTIVATION SKILL)

UNIT-I: BIOCONTROL (6 periods)

Introduction, Definition, Biocontrol agents, Need of biocontrol, Concept of biocontrol (ways, limitations and factors affecting success of biocontrol, Environmental health hazards due to pesticides and fungicides), Plant based products (Azadirachtin, Neem cake, Indiar, Pyrethrines, Phermones, Trichoderma etc.)

UNIT-II: TRICHODERMA CULTIVATION (15 periods)

Introduction, Systematic position, thallus structure, Trichoderma as biocontrol agent, Mode of action, Uses, Trichoderma as a commercial biocontrol agent, Cultivation details of Trichoderma

UNIT-III: PRACTICALS ON TRICHODERMA CULTIVATION (8 practicals)

Principle, Requirement, procedure, observations, Harvesting, results and records precautions, Visit to a Trichoderma cultivation laboratory in nearby area (Students are expected to prepare a model of Trichoderma cultivation laboratory, a visit report and to submit the same at the time of practical examination.

OR

SECB-IIB: ALGAL BIOMASS PRODUCTION SKILL
(SPIRULINA CULTIVATION)

UNIT-I: ALGAL BIOMASS AS NON CONVENTIONAL FOOD (6 periods)

Introduction, Concept and need, Advantages, disadvantages and Sources of non-conventional food

UNIT-II: SPIRULINA CULTIVATION FOR SINGLE CELL PROTEIN-SCP (15 periods)

Introduction, Systematic position, thallus structure, Merits of Spirulina cultivation, Methods of cultivation- Small scale cultivation, Mass cultivation, Harvesting of Spirulina, Flow chart of Spirulina cultivation, Limiting factors for Spirulina cultivation, Spirulina products –Powder, Biscuits, Tablets

UNIT-III: PRACTICALS ON SPIRULINA CULTIVATION (8 practicals)

Principle, Requirement, chemicals, Sample or Inoculum of Spirulina, procedure (steps involved in Spirulina cultivation), observations, Harvesting, results and records, precautions Visit to a Spirulina cultivation laboratory in nearby area (Students are expected to prepare a model of Spirulina cultivation laboratory, a visit report and to submit the same at the time of practical examination.

Suggested Readings for SECB-I&II:

Vijaya Khader (1993): Mushrooms for livelihood, Kalyani publishers, Ludhiana-141 008, Page 1-64

Patil B.A. et al (2004): Applied Botany, Sunny publication, Pune, Page 1-214

Dhumal K.N. et al (1998): Plant Diversity & Plants and Human welfare, Nirali prakashan, Pune Page 1-296

Aneja K.R. (1993): Experiments in Microbiology, Plant pathology, Tissue culture and Mushroom cultivation, Vishawa prakashan

Aneja K.R. (1993): Experiments in Microbiology, Plant pathology, Tissue culture and Mushroom cultivation, Vishawa prakashan

(With effect from Academic Year 2017-2018)



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
SEMESTER PATTERN CURRICULUM UNDER
CHOICE BASED CREDIT SYSTEM (CBCS) FOR

Faculty of Science
Under Graduate (UG) Programmes

SUBJECT: BOTANY

CLASS: B.Sc. SECOND YEAR

ANNUAL PATTERN

SKILL ENHANCEMENT COURSE BOTANY

SECB-I&II

END OF SEMESTER EXAMINATION (ESE)

Maximum Marks: 25

SEAT NO:

MARK SHEET

Sr. No.	END OF SEMESTER EXAMINATION (ESE)	Maximum Marks	Obtained Marks
1	Skill Work report submission	10	
2	Over all skill judgement	10	
3	Skill Work presentation	05	
4	Total Marks	25	

Name & Signature of:

Examiner- 1:

Examiner- 2:



**SWAMI RAMANAND TEERTH MARATHWADA UNIVERISTY,
NANDED**

**SEMESTER PATTERN CURRICULUM UNDER
CHOICE BASED CREDIT SYSTEM (CBCS) FOR
Under Graduate Programme
Faculty of Science and Technology**

SUBJECT : BOTANY

B.Sc. Third Year

With Effect from June 2018..



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
BOTANY – CURRICULUM
B.Sc. General (CBCS Pattern)

Introduction:

The University Grants Commission (UGC) has initiated several measures to bring equity, efficiency and excellence in the Higher Education System of country. The important measures taken to enhance academic standards and quality in higher education include innovation and improvements in the curriculum, teaching-learning process, examination and evaluation systems, besides governance and other matters.

As a result, the grading system is considered to be better than the conventional marks system and hence it has been followed by our university. So, it is desirable to introduce uniform Choice Based Credit System CBCS system. This will facilitate student mobility across institutions, within and across countries and also enable potential employers to assess the performance of students.

The CBCS provides choice for students to select from the prescribed courses (core, elective or minor or soft skill courses). The choice based credit system provides a 'cafeteria' type approach in which the students can take courses of their choice, learn at their own pace, undergo additional courses and acquire more than the required credits, and adopt an interdisciplinary approach to learning. Our university has already introduced the choice based credit system. The semester system accelerates the teaching-learning process and enables vertical and horizontal mobility in learning.

Keeping in mind BoS in Botany prepared the curriculum to ensure up-to-date level of understanding of plant sciences. Studying plant sciences prepares the student for a career working in either an educational institution or an industry in which you can be directly involved in the research and development and Knowledge of modern and applied plant science and excellent career prospects.

The study of Botany aims to expand and increase current knowledge about plants in order to solve problems in many fields including agriculture, ecology, medicine, biotechnology and horticulture. These are some of the objectives kept in mind during drafting the syllabi.

How plants function at the cellular, tissue, organ, and organismal levels? How evolution of plants and how they contribute to biodiversity. How interactions with each other impact their physical environment are the core objectives.

The addition of Skill enhancement course aims to develop skills in plant sciences and practical experience to the students.

At the end of the curriculum, the student should have increased an aptitude towards science and nature, undertakes the fundamental and applied research in plant science for the benefit of the human and nature.

At last comments, suggestions are welcome from all the teachers, stakeholders and students for the upbringing the curriculum.

Salient Features :

The syllabus of B Sc IIIrd year Botany has been framed to meet the requirement of Choice based Credit System. The courses offered here in will train and orient the students in the field of Botany.

The Section A of DSEB deals with Plant Physiology, Plant Metabolism, Biochemistry and Biotechnology. The Section B of DSEB with choice provides an option to learn courses like Plant Pathology-I & II, Systematic Botany-I & II and Herbal Technology-I & II.

This would help students to lay a strong foundation in the field of Botany.

Overall after completion of this course, students will also acquire fundamental knowledge in Plant Science and also understand that Botany is an integral part of the human life and developments.

Skill Enhancement Courses like Fruit and vegetable processing, Herbal drug technology, Floriculture, Bioinstrumentation, Medicinal plant product preparation skill, Fungal biomass production skill (Mushroom cultivation), Fungal biomass production for biocontrol and Algal biomass production skill (*Spirulina* cultivation) offered during this program are designed with the aim of imparting specific skills to the students which will lead to the self employability through development of their own enterprises.

Utility of Course

This program will train and orient the students in the field of Genetics and Molecular Biology , Plant Breeding , Diversity of Plants, Anatomy and Embryology of Angiosperms, Environmental Biology, Plant Physiology, Biochemistry and Biotechnology, Plant Pathology, Systematic Botany and Herbal Technology in relation to Environment and Agriculture as well as Biotechnological, Pharmaceutical and Herbal Industries. This will help the students for their career development.

Skill Enhancement Courses offered during this program will provide additional specific skills to the students for self employability through the development of their own enterprises.

Learning Objectives :

The Objective of this program are :

1. To provide an updated education to the students at large in order to know the importance and scope of the discipline and to provide mobility to students from one university or state to other.
2. To update curriculum by introducing recent advances in the subject and enable the students to face NET, SET, UPSC and other competitive examinations successfully.
3. To impart knowledge of plant science as the basic objective of Education.
4. To develop a scientific attitude to make students open minded, critical and curious.
5. To develop an ability to work on their own and to make them fit for the society.
6. To expose themselves to the diversity amongst life forms.
7. To develop skill in practical work, experiments, equipments and laboratory use along with collection and interpretation of plant materials and data.
8. To make aware of natural resources and environment and the importance of conserving the same.
9. To develop ability for the application of the acquired knowledge in the fields of life so as to make our country self reliant and self sufficient.
10. To appreciate and apply ethical principles to plant science research and studies.

Prerequisite :

The optional courses are offered to the students registered for undergraduate programs. Such students should have the basic knowledge of Plant Science and willing to gain additional knowledge in the field of Botany.



**SWAMI RAMANAND TEERTH MARATHWADA UNIVERISTY,
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**SEMESTER PATTERN CURRICULUM UNDER
CHOICE BASED CREDIT SYSTEM (CBCS) FOR
Under Graduate Programme
Faculty of Science and Technology**

SUBJECT : BOTANY

Class : B.Sc. Third Year

An Outline:

Semester/ Annual	Course No		Name of the Course	Total Periods (Periods/ Week)	Marks for		Credits (Marks)
					External (ESE)	Internal (CA)	
Semester-V	DSEB-I	Section -A	Theory Paper- XII: Plant Physiology	45 (03/week)	40	10	Credits:02 (Marks: 50)
		Section -B	Theory Paper- XIII: B I: Plant Pathology-I OR B II: Systematic Botany-I OR B III: Herbal Technology-I	45 (03/week)	40	10	Credits:02 (Marks: 50)
Semester-VI	DSEB- II	Section -A	Theory Paper- XIV: Plant Metabolism, Biochemistry and Biotechnology	45 (03/week)	40	10	Credits:02 (Marks: 50)
		Section -B	Theory Paper- XV: B I: Plant Pathology-II OR B II:	45 (03/week)	40	10	Credits:02 (Marks: 50)

			Systematic Botany-II OR B III: Herbal Technology-II				
Annual Pattern	DSEBP-I (DSEB I & II Section A)	--	Practical Paper XVI: Practicals based on theory papers-XII & XIV	16 Pract. (03/week/ Batch)	40	10	Credits:02 (Marks: 50)
	SECB III	--	SEC- III A Or B	01 Skill (03/week/ Batch)	25	25	Credits:02* (Marks: 50)
Annual Pattern	DSEBP-II (DSEB I & II Section B)	--	Practical Paper XVII: Practicals based on theory papers-XIII & XV	16 Pract. (03/week/ Batch)	40	10	Credits:02 (Marks: 50)
	SECB IV	--	SEC- IV A OR B	01 Skill (03/week/ Batch)	25	25	Credits:02* (Marks: 50)
Total Credits Semester –V & VI					240+50 = 290	60+50 =110	Credits:12+4* = 16 (Marks: 300+100* = 400)

ESE : End Semester Examination, **CA** : Continues Assessment, **SECB**: Skill Enhancement Course Botany, **DSEB**: Discipline Specific Elective Botany, **DSEBP**: Discipline Specific Elective Botany Practical

Distribution of Credits: 80 % of the total credits for the ESE and 20% for CA

CA of 10 Marks (Theory) : 05 Marks for test & 05 Marks for Assignment

CA of 10 Marks (Practicals): : 05 Marks for test & 05 Marks for Record Book ,Submission of collection and field note and Excursion Report.

CA of 25 Marks : 15 Marks for Seminar & 10 Marks for Test



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Semester pattern curriculum under
Choice Based Credit System (CBCS) for
BOTANY
B.Sc. T.Y.
Semester – V
DSEB-I
Theory Paper –XII : Plant Physiology
(Compulsory)

Periods – 45

Maximum Marks – 50

UNIT-I: PLANT WATER RELATIONS (11 periods)

Importance of water in plant life

Different bio-physico-chemical phenomenon: Permeability, Diffusion, Osmosis, Plasmolysis and Imbibition.

Ascent of sap: Introduction and mechanism (transpiration pull theory),

Transpiration: Definition, types, structure of stomata, mechanism of opening and closing of stomata (starch-sugar theory and K⁺ pump theory).

Plant movements: Introduction, classification, paratonic and nastic movements.

UNIT-II: MINERAL NUTRITION (11 periods)

Major and Minor elements: Introduction, source, deficiency symptoms and their role.

Mineral salt absorption: Introduction, mechanism of passive absorption (ion exchange theory) and active absorption (carrier concept theory)

Translocation of organic solutes: Introduction, mechanism of translocation (Munch-Mass flow hypothesis)

UNIT-III: GROWTH AND DEVELOPMENT (12 periods)

Growth and Plant growth regulators: Introduction, phases of growth, measurement of growth (arc indicator and Pfeiffer's auxanometer), factors affecting growth, Chemical nature and practical applications of Auxins, gibberellins, cytokinins, abscisic acid and ethylene.

Seed dormancy: Introduction, causes of seed dormancy and methods of breaking seed dormancy

Seed germination: Introduction, types and mechanism of seed germination,

Physiology of flowering: Introduction, Photoperiodism (LDP, SDP and DNP),

Vernalization and devernalization: Introduction, mechanism and significance,

UNIT-IV: BIOMOLECULES AND SECONDARY METABOLITES (11 periods)

Biomolecules:

Carbohydrates: introduction, structure and classification, Monosaccharides, disaccharides and polysaccharides (starch and cellulose)

Protein- Introduction, classification and biological functions of Primary, secondary (α helix and β sheets), tertiary and quaternary structure

Lipids: Introduction, structure classification and biological functions of lipids

Secondary metabolites: Biological functions of tannins, terpenoids, flavonoids, alkaloids, essential oils and organic acids

Theory paper-XII: Plant physiology (Compulsory)-Unit wise distribution of periods and marks

Unit	Title	Periods Allotted	Maximum Marks
I	Plant Water Relations	11	20
II	Mineral Nutrition	11	20
III	Growth and Development	12	20
IV	Biomolecules and Secondary Metabolites	11	20
Total		45	80



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

BOTANY – CURRICULUM
B.Sc. General (Semester Pattern)
Choice Based Credit System (CBCS)

Skeleton Question Paper
B. Sc. Third Year
Semester – V
Theory Paper-XII

Time: TWO hours

Maximum Marks: 40

Note: - (i) Attempt all questions
(ii) All questions carry equal marks
(iii) Draw neat and well labeled diagrams wherever necessary

Q1. Attempt any Four of the following (Each of 02 Marks) 08

- a)
- b)
- c)
- d)
- e)
- f)

(Based On Unit I, II, III, IV) Minimum one and maximum two from each Unit

Q2. Attempt any Two of the following (Each of 04 Marks) 08

- a)
- b)
- c)

(Based On Unit I, II)

Q3. Attempt any One of the following (Each of 08 Marks) 08

- a)
- b)

(Based On Unit I, II)

Q4. Attempt any Two of the following (Each of 04 Marks) 08

- a)
- b)
- c)

(Based On Unit III, IV)

Q5. Attempt any One of the following (Each of 08 Marks) 08

- a)
- b)

(Based On Unit III, IV)



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

**Semester pattern curriculum under
Choice Based Credit System (CBCS) for
BOTANY
B.Sc. T.Y.
Semester – V
DSEB-I
Theory Paper –XIII**

**SEMESTER-V (OPTIONAL-I)
PLANT PATHOLOGY-I (B-I)**

Periods – 45

Maximum Marks – 50

UNIT-I : FUNDAMENTALS OF PLANT PATHOLOGY (11 periods)

Scope, importance, history and advancement of plant pathology, classification of plant diseases on the basis of causal organism and symptoms, field and laboratory diagnosis- Isolation of plant pathogens from infected plant parts, soil and air, Pure culture technique, Koch's postulates for pathogenicity.

UNIT-II : PLANT DISEASE DEVELOPMENT (11 periods)

Disease development- Mode of entry of pathogens (through stomata, wounds, root hairs and buds), Factors affecting disease development- Temperature, moisture, wind and soil pH, Dispersal of plant pathogens (by air, water, insects and animals), chemical weapons of pathogen: enzymes, toxins and growth regulators..

UNIT-III : PLANT DISEASES-I (12 periods)

Symptoms, causal organisms, disease cycle and control measures of Green ear of Bajra, leaf spot of tomato, Grain smut of Jowar, Red rot of Sugarcane, Angular leaf spot of cotton, , Bacterial blight of Pomegranate, Anthracnose of mango

UNIT-IV : PLANT DISEASES-II (11 periods)

Symptoms, causal organisms, disease cycle and control measures of White rust of Mustard, Whip smut of Sugarcane, Powdery mildew of pea, Leaf spot of Turmeric (*Colletotrichum capsici*), Citrus canker, Sigatoka disease of Banana, leaf blight of Rice.

Theory paper-XIII: B-I - Plant pathology-I (Optional) – Unit wise distribution of periods and marks :

Unit	Title	Periods Allotted	Maximum Marks
I	Fundamentals of Plant Pathology	11	20
II	Plant Disease Development	11	20
III	Plant Diseases-I	12	20
IV	Plant Diseases-II	11	20
	Total	45	80



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

BOTANY – CURRICULUM
B.Sc. General (Semester Pattern)
Choice Based Credit System (CBCS)

Skeleton Question Paper
B. Sc. Third Year
Semester – V, Plant Pathology-I (Optional-I)
Theory Paper-XIII

Time: TWO hours

Maximum Marks: 40

Note: - (i) Attempt all questions
(ii) All questions carry equal marks
(iii) Draw neat and well labeled diagrams wherever necessary

-
- Q1. Attempt any Four of the following (Each of 02 Marks) 08
a)
b)
c)
d)
e)
f)
(Based On Unit I, II, III, IV) Minimum one and maximum two from each Unit
- Q2. Attempt any Two of the following (Each of 04 Marks) 08
a)
b)
c)
(Based On Unit I, II)
- Q3. Attempt any One of the following (Each of 08 Marks) 08
a)
b)
(Based On Unit I, II)
- Q4. Attempt any Two of the following (Each of 04 Marks) 08
a)
b)
c)
(Based On Unit III, IV)
- Q5. Attempt any One of the following (Each of 08 Marks) 08
a)
b)
(Based On Unit III, IV)



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

**Semester pattern curriculum under
Choice Based Credit System (CBCS) for**

BOTANY

B.Sc. T.Y.

Semester – V

DSEB-I

Theory Paper –XIII

SEMESTER-V (OPTIONAL-II)

SYSTEMATIC BOTANY-I (B-II)

Periods – 45

Maximum Marks – 50

UNIT –I: CLASSIFICATION (11 periods)

Introduction- Definition, aims, scope and application of angiosperms taxonomy, Types of classification- Artificial, Natural and Phylogenetic, Outline of Bentham and Hooker, Engler and Prantl and Hutchinson's systems of classification of angiosperms with merits and demerits

UNIT –II: PRINCIPLES OF TAXONOMY (10 periods)

ICN (International Code of Nomenclature)-Brief history, principle of priority, effective and valid publication, typification and author citation, Species concept- Morphological and biological, Role of phytochemistry, cytology, anatomy and palynology in relation to taxonomy. Pollen morphology with reference to pollen grains of *Hibiscus*, *Ipomoea* and Grasses

UNIT –III: STUDY OF MONOCOT FAMILIES-I (12 periods)

Study of following families according to Bentham and Hooker's system of classification with reference to general characters, pollination, floral formulae, floral diagrams, systematic position, distinguishing features and economic importance

Musaceae, Zingiberaceae, Cannaceae

UNIT –IV: STUDY OF MONOCOT FAMILIES-II (12 periods)

Study of following families according to Bentham and Hooker's system of classification with reference to general characters, pollination, floral formulae, floral diagrams, systematic position, distinguishing features and economic importance

Orchidaceae, Commelinaceae, Cyperaceae

Theory paper-XIII: B-II - Systematic Botany-I (Optional-II) - Unit wise distribution of periods and marks:

Unit	Title	Periods Allotted	Maximum Marks
I	Classification	11	20
II	Principles of taxonomy	10	20
III	Study of Monocot families-I	12	20
IV	Study of Monocot Families-II	12	20
Total		45	80



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

BOTANY – CURRICULUM
B.Sc. General (Semester Pattern)
Choice Based Credit System (CBCS)

Skeleton Question Paper
B. Sc. Third Year
Semester – V , Systematic Botany-I (Optional-II)
Theory Paper-XIII

Time: TWO hours

Maximum Marks: 40

Note: - (i) Attempt all questions
(ii) All questions carry equal marks
(iii) Draw neat and well labeled diagrams wherever necessary

-
- Q1. Attempt any Four of the following (Each of 02 Marks) 08
a)
b)
c)
d)
e)
f)
(Based On Unit I, II, III, IV) Minimum one and maximum two from each Unit
- Q2. Attempt any Two of the following (Each of 04 Marks) 08
a)
b)
c)
(Based On Unit I, II)
- Q3. Attempt any One of the following (Each of 08 Marks) 08
a)
b)
(Based On Unit I, II)
- Q4. Attempt any Two of the following (Each of 04 Marks) 08
a)
b)
c)
(Based On Unit III, IV)
- Q5. Attempt any One of the following (Each of 08 Marks) 08
a)
b)
(Based On Unit III, IV)



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

**Semester pattern curriculum under
Choice Based Credit System (CBCS) for**

BOTANY

B.Sc. T.Y.

Semester – V

DSEB-I

Theory Paper –XIII

**SEMESTER-V (OPTIONAL-III)
HERBAL TECHNOLOGY-I (B-III)**

Periods – 45

Maximum Marks – 50

UNIT-I: MEDICINAL AND AROMATIC PLANTS (MAP) (11 periods)

Introduction, History, importance, demand and supply of MAP in India, Indian systems of medicine- Ayurvedic, Unani, homeopathic, siddha, yoga and naturopathy, tribal medicine sources, Herbal sources, Animal sources, Mineral sources, their collection, purification and processing.

UNIT-II: CRUDE PLANT DRUGS (11 periods)

Definition, Classification- Alphabetic, taxonomic, morphological, chemical, pharmacological and Chemotaxonomic, Methods of cultivation and factors affecting the cultivation of drug plants, Collection, harvesting, drying and storage of crude drugs, organized crude drugs- Leaves, stem, Flowers, fruits, seeds, barks, underground and entire plant drugs, Unorganized drugs- Gums, Mucilage, resins, dried juices, latex and extracts

UNIT-III: PHARMACOGNOTIC STUDIES (11 periods)

Distribution, morphology, anatomical, chemical constituents and uses of Root drugs- Shatavari, Ashwagandha, Stem drugs- Ginger, turmeric, Gulvel, Chandan, Leaf drugs- Adulsa, Korphad (*Aloe*), Fruit drugs- Behda, Hirda and Entire plant drugs- Tulsi and Aghada

UNIT-IV: MEDICINAL PLANT BIOTECHNOLOGY AND STANDARDIZATION OF DRUGS (12periods)

Genetics as applied to medicinal herbs and transgenic plants, Plant tissue culture as source of biomedicines, Importance of drug standardization, Problems of standardization of herbs, Drug adulteration, Methods of drug evaluation- Morphological, microscopic, chemical, physical and Biological. Tissue culture of medicinal important plants, secondary metabolites production (Alkaloids, Flavonoids)

Theory paper-XIII: B-III- Herbal technology-I (Optional-IV) - Unit wise distribution of periods and marks:

Unit	Title	Periods Allotted	Maximum Marks
I	Medicinal and Aromatic Plants (Map)	11	20
II	Crude Plant Drugs	11	20
III	pharmacognostic studies	11	20
IV	Medicinal Plant Biotechnology and Standardization of Drugs	12	20
Total		45	80



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

BOTANY – CURRICULUM
B.Sc. General (Semester Pattern)
Choice Based Credit System (CBCS)

Skeleton Question Paper
B. Sc. Third Year
Semester – V , Herbal Technology-I (Optional-III)
Theory Paper-XIII

Time: TWO hours

Maximum Marks: 40

Note: - (i) Attempt all questions
(ii) All questions carry equal marks
(iii) Draw neat and well labeled diagrams wherever necessary

- Q1. Attempt any Four of the following (Each of 02 Marks) 08
a)
b)
c)
d)
e)
f)
(Based On Unit I, II, III, IV) Minimum one and maximum two from each Unit
- Q2. Attempt any Two of the following (Each of 04 Marks) 08
a)
b)
c)
(Based On Unit I, II)
- Q3. Attempt any One of the following (Each of 08 Marks) 08
a)
b)
(Based On Unit I, II)
- Q4. Attempt any Two of the following (Each of 04 Marks) 08
a)
b)
c)
(Based On Unit III, IV)
- Q5. Attempt any One of the following (Each of 08 Marks) 08
a)
b)
(Based On Unit III, IV)



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

**Semester pattern curriculum under
Choice Based Credit System (CBCS) for**

BOTANY

B.Sc. T.Y.

Semester – VI

DSEB -II

**Theory Paper –XIV : Plant Metabolism,
Biochemistry and Biotechnology
(Compulsory)**

Periods – 45

Maximum Marks – 50

UNIT-I: PHOTOSYNTHESIS AND RESPIRATION (12 periods)

Photosynthesis: Introduction, significance, ultra structure of chloroplast, photosynthetic pigments, concepts of two Photo systems, Mechanism of photosynthesis, Light reaction, Hill reaction, Cyclic and Non cyclic photophosphorylation, Dark phase, Calvin cycle (C3) and Hatch and Slack (C4) pathway, CAM pathway

Respiration: Introduction, significance, ultra structure of mitochondria, structure and functions of ATP, **Types of respiration:**

Aerobic respiration- Glycolysis, Krebs' cycle, Electron Transport System.

Anaerobic respiration- Fermentation (alcoholic and lactic acid)

UNIT-II: : ENZYMES AND NITROGEN METABOLISM (11 periods)

Enzymes: Introduction, nomenclature and classification (IUB), mechanism of enzyme action (lock and key model, induced fit model), Concept of holoenzyme, mechanism of regulation of enzyme activity-Feedback and allosteric regulation.

Nitrogen metabolism: Introduction, sources and forms of nitrogen, types of nitrogen fixation-physical and biological (symbiotic and asymbiotic), Ammonification, nitrification and denitrification

UNIT -III: BIOTECHNOLOGY (11periods)

Tissue culture: Introduction and basic aspects of tissue culture, media, culture techniques, cellular totipotency.

Applications of tissue culture: Micropropagation, Production of disease free plants, production of secondary metabolites, Anther culture and production of haploids, protoplast culture and somatic hybridization, synthetic seeds

UNIT-IV: GENETIC ENGINEERING (11 periods)

Introduction, tools and techniques of recombinant DNA technology, Cloning vectors, Gene cloning, Genomic library and cDNA library, *Agrobacterium* mediated gene transfer, transgenic plants.

Bioinformatics: Introduction, Biological database, NCBI, BLAST.

Theory paper-XIV: Plant metabolism, biochemistry and biotechnology (Compulsory) -**Unit wise distribution of periods and marks:**

Unit	Title	Periods Allotted	Maximum Marks
I	Photosynthesis and Respiration	12	20
II	Enzymes and Nitrogen Metabolism	11	20
III	Biotechnology	11	20
IV	Genetic Engineering	11	20
Total		45	80



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

BOTANY – CURRICULUM
B.Sc. General (Semester Pattern)
Choice Based Credit System (CBCS)

Skeleton Question Paper
B. Sc. Third Year
Semester – VI
Theory Paper-XIV

Time: TWO hours

Maximum Marks: 40

-
- Note: - (i) Attempt all questions
(ii) All questions carry equal marks
(iii) Draw neat and well labeled diagrams wherever necessary
-

- Q1. Attempt any Four of the following (Each of 02 Marks) 08
a)
b)
c)
d)
e)
f)
(Based On Unit I, II, III, IV) Minimum one and maximum two from each Unit
- Q2. Attempt any Two of the following (Each of 04 Marks) 08
a)
b)
c)
(Based On Unit I, II)
- Q3. Attempt any One of the following (Each of 08 Marks) 08
a)
b)
(Based On Unit I, II)
- Q4. Attempt any Two of the following (Each of 04 Marks) 08
a)
b)
c)
(Based On Unit III, IV)
- Q5. Attempt any One of the following (Each of 08 Marks) 08
a)
b)
(Based On Unit III, IV)



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

**Semester pattern curriculum under
Choice Based Credit System (CBCS) for
BOTANY
B.Sc. T.Y.
Semester – VI
DSEB -II
Theory Paper –XV**

**SEMESTER-VI (OPTIONAL-I)
PLANT PATHOLOGY-II (B-I)**

Periods – 45

Maximum Marks – 50

UNIT-I : AEROBIOLOGY AND SEED PATHOLOGY (11 periods)

Aerobiology- Definition, scope and importance and disease forecasting, Seed pathology- Definition, seed borne pathogens (external and internal) detection of seed borne pathogens by blotter paper and agar plate methods, seed treatment (hot water, solar, chemical) and seed certification.

UNIT-II : DEFENSE MECHANISM AND PLANT DISEASE MANAGEMENT (11 periods)

Structural (pre-existing and Post infectious) and biochemical defense-pre-existing and Post infectious (phytoalexins) Exclusion and eradication, Chemical control- General account of Sulphur, Copper, systemic fungicides and antibiotics, Integrated pest management.

UNIT-III : PLANT DISEASES-I (11 periods)

Symptoms, causal organisms, disease cycle and control measures of Tikka disease of groundnut, Ergot of Bajra, Loose smut of Wheat, Rust of Jowar, Phanerogamic parasites(Cuscuta), Leaf curl of tomato.

UNIT-IV : PLANT DISEASES-II (12 periods)

Symptoms, causal organisms, disease cycle and control measures of Downy mildew of Grape, Stem rust of Wheat, Wilt of Tur, late blight of Potato, Grassy shoot of Sugarcane, Papaya mosaic, Rust of Soybean, Leaf spot of cabbage.

Theory paper-XIII: B-I- Plant pathology-II (Optional-I) – Unit wise distribution of periods and marks :

Unit	Title	Periods Allotted	Maximum Marks
I	Aerobiology and Seed Pathology	11	20
II	Defense Mechanism and Plant Disease Management	11	20
III	Plant Diseases-I	11	20
IV	Plant Diseases-II	12	20
	Total	45	80



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

BOTANY – CURRICULUM
B.Sc. General (Semester Pattern)
Choice Based Credit System (CBCS)

Skeleton Question Paper
B. Sc. Third Year
Semester – VI, Plant Pathology-II (Optional-I)
Theory Paper-XV

Time: TWO hours

Maximum Marks: 40

Note: - (i) Attempt all questions
(ii) All questions carry equal marks
(iii) Draw neat and well labeled diagrams wherever necessary

Q1. Attempt any Four of the following (Each of 02 Marks) 08

- a)
- b)
- c)
- d)
- e)
- f)

(Based On Unit I, II, III, IV) Minimum one and maximum two from each Unit

Q2. Attempt any Two of the following (Each of 04 Marks) 08

- a)
- b)
- c)

(Based On Unit I, II)

Q3. Attempt any One of the following (Each of 08 Marks) 08

- a)
- b)

(Based On Unit I, II)

Q4. Attempt any Two of the following (Each of 04 Marks) 08

- a)
- b)
- c)

(Based On Unit III, IV)

Q5. Attempt any One of the following (Each of 08 Marks) 08

- a)
- b)

(Based On Unit III, IV)



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

**Semester pattern curriculum under
Choice Based Credit System (CBCS) for
BOTANY
B.Sc. T.Y.
Semester – VI
DSEB- II
Theory Paper –XV**

**SEMESTER-VI (OPTIONAL-II)
SYSTEMATIC BOTANY-II (B-II)**

Periods – 45

Maximum Marks – 50

UNIT –I: STUDY OF DICOT FAMILIES (Gamopetalae) (12 periods)

Study of following families according to Bentham and Hooker's system of classification with reference to general characters, pollination, floral formulae, floral diagrams, systematic position, distinguishing features and economic importance

Rubiaceae, Apocynaceae, Convolvulaceae, Bignoniaceae, Acanthaceae, Verbenaceae,

UNIT –II: STUDY OF DICOT FAMILIES (Polypetalae) (12 periods)

Study of following families according to Bentham and Hooker's system of classification with reference to general characters, pollination, floral formulae, floral diagrams, systematic position, distinguishing features and economic importance

**Papaveraceae, Combretaceae, Myrtaceae, Rutaceae, Mimosaceae, Cucurbitaceae
Nyctaginaceae (Monochlamydeae)**

UNIT –II: TAXONOMIC TOOLS (10 periods)

Herbarium- Techniques of plant preservation, Importance of herbarium, Botanical gardens- Role in plant taxonomy, Important Botanical gardens, Plant identification key-Types and use

UNIT –II: ORIGIN OF ANGIOSPERMS (11 periods)

Place and Time of origin of angiosperms, Probable ancestors of Angiosperms: Bennettitalean theory, Gnetalean theory, Pteridosperm theory

Theory paper-XV: B-II-Systematic Botany-II (Optional-II) - Unit wise distribution of periods and marks:

Unit	Title	Periods Allotted	Maximum Marks
I	Study of Dicot families (Gamopetalae)	12	20
II	Study of Dicot families (Polypetalae)	12	20
III	Taxonomic tools	10	20
IV	Origin of angiosperms	11	20
Total		45	80



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

BOTANY – CURRICULUM
B.Sc. General (Semester Pattern)
Choice Based Credit System (CBCS)

Skeleton Question Paper
B. Sc. Third Year
Semester – VI ,Systematic Botany- II
Theory Paper-XV Optional -II

Time: TWO hours

Maximum Marks: 40

Note: - (i) Attempt all questions
(ii) All questions carry equal marks
(iii) Draw neat and well labeled diagrams wherever necessary

Q1. Attempt any Four of the following (Each of 02 Marks) 08

- a)
- b)
- c)
- d)
- e)
- f)

(Based On Unit I, II, III, IV) Minimum one and maximum two from each Unit

Q2. Attempt any Two of the following (Each of 04 Marks) 08

- a)
- b)
- c)

(Based On Unit I, II)

Q3. Attempt any One of the following (Each of 08 Marks) 08

- a)
- b)

(Based On Unit I, II)

Q4. Attempt any Two of the following (Each of 04 Marks) 08

- a)
- b)
- c)

(Based On Unit III, IV)

Q5. Attempt any One of the following (Each of 08 Marks) 08

- a)
- b)

(Based On Unit III, IV)



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

**Semester pattern curriculum under
Choice Based Credit System (CBCS) for
BOTANY
B.Sc. T.Y.
Semester – VI
DSEB -II
Theory Paper –XV**

**SEMESTER-VI (OPTIONAL-III)
HERBAL TECHNOLOGY-II (B-III)**

Periods – 45

Maximum Marks – 50

UNIT-I: HERBAL FORMULATION (11periods)

Steps of herbal formulation- Grinding, extraction, filtration, concentration, Dosage forms- Infusion, decoction, tincture, capsule, medicated wines, syrups, tablets, ointment and creams, Comparative study of- Ayurvedic and modern dosage forms. Preparation and therapeutic uses of Triphalachurna, Kumariasav, Arjunarishtha (Aristha), Gooti, Vatti and Telam

UNIT-II: DRUG CONSTITUENTS AND BIOSYNTHETIC PATHWAY. (11periods)

Introduction, occurrence and chemistry and Biosynthetic pathway of glycosides, alkaloids and steroids Flavonoids. Alkaloid: Reserpine, Morphin. Glycosides: Glycyrrhizin, Digitoxin. Steroids: Withanoloids. Flavonoids: Quercetin, Ritin. Carotenoids: Lycopene-carotene.

UNIT-III: ANALYTICAL AND CHROMATOGRAPHIC TECHNIQUES. (11 periods)

Principles and applications of spectral techniques in drug analysis: Colorimeter, UV-visible spectrophotometer, IR and NMR spectroscopy, paper chromatography, TLC, HPTLC, column and GC chromatography.

UNIT-IV: HERBAL COSMETICS (12 periods)

Classification of cosmetics, brief account of raw material used for cosmetic preparation, stability testing of herbal cosmetics, quality control and packaging of cosmetics. Study and preparation of skin care product (moisturizing creams and anti-ageing cream, hair care product (Hair oil, shampoos)

Theory paper-XV: B-III- Herbal technology-II (Optional-IV) - Unit wise distribution of periods and marks:

Unit	Title	Periods Allotted	Maximum Marks
I	Herbal Formulation	11	20
II	Drug Constituents and Biosynthetic pathways	11	20
III	Analytical Chromatographic Techniques	11	20
IV	Herbal cosmetics	12	20
Total		45	80



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

BOTANY – CURRICULUM
B.Sc. General (Semester Pattern)
Choice Based Credit System (CBCS)

Skeleton Question Paper
B. Sc. Third Year
Semester – VI, Herbal Technology-II (Optional-III)
Theory Paper-XV

Time: TWO hours

Maximum Marks: 40

Note: - (i) Attempt all questions
(ii) All questions carry equal marks
(iii) Draw neat and well labeled diagrams wherever necessary

Q1. Attempt any Four of the following (Each of 02 Marks) 08

- a)
- b)
- c)
- d)
- e)
- f)

(Based On Unit I, II, III, IV) Minimum one and maximum two from each Unit

Q2. Attempt any Two of the following (Each of 04 Marks) 08

- a)
- b)
- c)

(Based On Unit I, II)

Q3. Attempt any One of the following (Each of 08 Marks) 08

- a)
- b)

(Based On Unit I, II)

Q4. Attempt any Two of the following (Each of 04 Marks) 08

- a)
- b)
- c)

(Based On Unit III, IV)

Q5. Attempt any One of the following (Each of 08 Marks) 08

- a)
- b)

(Based On Unit III, IV)



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

BOTANY – CURRICULUM

B.Sc. General (Semester Pattern)

Choice Based Credit System (CBCS) Pattern

B. Sc. THIRD YEAR

Annual Pattern

PRACTICAL PAPER-XVI: BASED ON THEORY PAPERS-XII & XIV

(Compulsory)

Practicals

Maximum Marks – 50

Practical Exercises:

1. To determine the water potential of potato tuber
2. To determine the osmotic potential of vacuolar sap by plasmolysis
3. To study the effect of temperature on permeability of plasma membrane (Beet root) by using colorimeter / spectrophotometer
4. To study the effect of concentration of different organic solvents on permeability of plasma membrane (Beet root) by using colorimeter/spectrophotometer
5. To study the effect of different organic solvents on permeability of plasma membrane (Beet root) by using colorimeter/ spectrophotometer
6. Separation of photosynthetic pigments by paper chromatography
7. To study the effect of light colour on rate of photosynthesis
8. Determination of RF value and identification of amino acids in a mixture
9. Preparation of standard graph of starch using Colorimeter/ Spectrophotometer and determination of starch content of the given plant material
10. Preparation of standard graph of glucose using Colorimeter/ Spectrophotometer and determination of glucose content of the given plant material
11. Preparation of standard graph of protein using Colorimeter/ Spectrophotometer and determination of protein content from given plant material
12. To estimate the percentage of oil content in given oil seeds using Soxhlet extractor.
13. Study of catalase activity under different pH
14. Study of catalase activity under different temperature
15. Demonstration of osmosis by potato osmoscope
16. To study the mineral deficiency symptoms in at least four locally available plants
17. Demonstrations of the Arc indicator (lever auxanometer), Clinostat (Geotropism), Kuhn's fermentation tube experiment (Requirements, procedure and workings of the same are expected)
18. Study of tools used in GE/ Tissue culture laboratory for sterilization and inoculation. Principle and working of Autoclave, oven, incubator, Laminar Air flow, Inoculating chamber, callus culture, plantlet, Anther culture and protoplast culture
19. Study major biological databases
20. Study of gene sequence in FASTA Format
21. Qualitative analysis of proteins (Biuret/ Xanthoproteic/ Millon tests)
22. Qualitative analysis of Carbohydrates (Molisch /Fehlings /Benedict's) Glucose, sucrose, starch, Cellulose and Pectin
23. Qualitative test of tannin, terpenoids, saponins, flavonoids and alkaloids
24. Micro chemical test for organic acids – Tartaric acid, Citric acid, Oxalic and Malic acid
25. Botanical Excursions (Two short excursions and one long excursion and visits to laboratories / companies/ factory etc.)

Note: Minimum of 16 practicals need to be conducted as per the question paper format



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
BOTANY – CURRICULUM
B.Sc. General (CBCS Pattern)

Skeleton Question Paper
B. Sc. THIRD YEAR BOTANY
DSEBP-I Annual Pattern
PRACTICAL PAPER-XVI: BASED ON THEORY PAPER-XII & XIV
(Compulsory)

Time: Four hours

Maximum Marks: 40

-
- Note: -
- (i) Attempt all questions
 - (ii) Show your preparation to the examiner
 - (iii) Draw neat and well labeled diagrams wherever necessary
-

- Q1. Perform any one experiment (From practical exercise 1 to 5) /
Perform any one experiment (From practical exercise 6 to 13) (12 marks)
- Q2. Describe procedure and working of any one experiment (From practical exercise 14 to 17)
(10 marks)
- Q3. Perform any four micro-chemical tests (Protein-1, carbohydrates-1, Secondary metabolites-1,
Organic acids-1) (10 marks)
- Q4. Spotting- Four spots (Instrument- 1, Callus/ Anther/ Protoplast culture- each 1) (04 marks)
- Q5. Viva –Voce (04 marks)



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
BOTANY – CURRICULUM
B.Sc. General (Semester Pattern)

Choice Based Credit System (CBCS) Pattern

B. Sc. THIRD YEAR

Annual Pattern

PRACTICAL PAPER-XVII: BASED ON THEORY PAPERS-XIII & XV

PLANT PATHOLOGY –I & II (Optional –I)

Practicals

Maximum Marks – 50

Practical Exercises:

1. Study of laboratory equipment's- Autoclave, Hot air oven, inoculating chamber, laminar air flow, Air sampler, Incubator, Centrifuge (1 practical)
2. Preparation of culture media – PDA, NA (1 Practical)
3. Micrometry- Calibration of microscope and measurement of fungal spores (1 practical)
4. Isolation of fungal pathogens from diseased plant parts, Toxins & Enzymes (1 practical)
5. Isolation and identification of seed-borne pathogen by blotter / agar plate method (1 Practical)
6. Study of air – borne pathogen by exposed petri plates / air sampler (2 Practical)
7. Proving of pathogenicity (1 Practical)
8. Effect of pH on growth of pathogens (1 Practical)
9. Effect of Temperature on growth of pathogens (1 Practical)
10. Effect of fungicide on spore germination by hanging drop technique (2 Practical)
11. Study of symptoms and causal organisms of Stem rust of wheat (1 Practical)
12. Study of symptoms and causal organisms of Late blight of potato and Downy mildew of grapes (1 Practical)
13. Study of symptoms and causal organisms of Tikka disease of groundnut & Anthracnose of guava (1 Practical)
14. study of symptoms and causal organisms of Leaf spot of tomato and leaf spot of turmeric (1 Practical)
15. Study of symptoms and causal organisms of Rust of Jowar and Grain smut of Jowar (1 practical)
16. Study of symptoms and causal organisms of Loose smut of Wheat, & leaf blight of rice (1 Practical)
17. Study of symptoms and causal organisms of Green ear and ergot of Bajra (1 Practical)

18. Study of symptoms and causal organisms of wilt of Tur and Whip smut of sugarcane
(1 Practical)
19. Study of symptoms and causal organisms of white rust of Mustard / leaf spot of cabbage
(1 Practical)
20. Study of symptomology of the following diseases-citrus canker, Root knot of tomato, Angular leaf spot of cotton, papaya mosaic , Rust of soybean , sigatoka disease of Banana , Anthracnose of mango , phanerogamic disease due to cuscuta
(3 practicals)
- 21.** Botanical excursions – Several local at least lone long excursion

Note: Minimum of 16 practicals need to be conducted as per the question paper format



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
BOTANY – CURRICULUM
B.Sc. General (CBCS Pattern)

Skeleton Question Paper
B. Sc. THIRD YEAR BOTANY
DSEBP-II-Annual Pattern
PRACTICAL PAPER-XVII: BASED ON THEORY PAPERS-XIII & XV
PLANT PATHOLOGY –I & II (Optional –I)

Time: Four hours

Maximum Marks: 40

-
- Note: -
- (i) Attempt all questions
 - (ii) Show your preparation to the examiner
 - (iii) Draw neat and well labeled diagrams wherever necessary
-

- Q.1 Calibrate the microscope and measure the size of given spores (10)
- Q.2 Identify and describe the symptoms and morphology of causal organism from the given specimen –B (12)
- Q.3 Identify and describe the symptoms of diseased specimen – C&D (10)
- Q.4 Identify and describe the given spots – E,F,G & H (E- Equipment, F- Diseased plant material , G- Toxins / Enzymes, H- Plant protectant (04)
- Q5. Viva –Voce (04)



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
BOTANY – CURRICULUM
B.Sc. General (Semester Pattern)

Choice Based Credit System (CBCS) Pattern
B. Sc. THIRD YEAR
Annual Pattern

PRACTICAL PAPER-XVII: BASED ON THEORY PAPERS-XIII & XV
SYSTEMATIC BOTANY –I & II (Optional –II)

Practical :

Maximum Marks – 50

Practical Exercises:

1. Description, identification and classification with sketches, floral formulae and floral diagrams of locally available plants of the following families -
Papaveraceae, Combretaceae, Myrtaceae, Cucurbitaceae, Rutaceae, Rubiaceae, Apocynaceae, Bignoniaceae, Acanthaceae, Convolvulaceae, Verbenaceae, Nyctaginaceae, Musaceae, Cannaceae, Commelinaceae, Cyperaceae (16 practical)
2. Preparation of dichotomous key by studying locally available plants of the same family
(1practical)
3. Identification of at least six locally available plants up to species level with the help of flora (sketches, floral formulae and floral diagrams are not expected) **(2 practical)**
4. Study of pollen morphology by temporary preparation of pollen grains of Hibiscus, Ipomoea and Grasses by using acetolysis method **(2 practical)**
5. Botanical excursions

Note 1: Student must attend at least one long and two short botanical excursions.

Note 2: Minimum of 16 practicals need to be conducted as per the question paper format



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

BOTANY – CURRICULUM

B.Sc. General (CBCS Pattern)

Skeleton Question Paper

B. Sc. THIRD YEAR BOTANY

DSEBP-II, Annual Pattern

PRACTICAL PAPER-XVII: BASED ON THEORY PAPERS-XIII & XV

SYSTEMATIC BOTANY-I & II (Optional -II)

Time: 04 hours

Maximum Marks: 40

-
- Note: -
- (i) Attempt all questions
 - (ii) Show your preparation to the examiner
 - (iii) Draw neat and well labeled diagrams wherever necessary
-

- Q1.** Describe, identify and classify the given specimen-**A & B** to its respective families
With floral formulae and floral diagrams (16 Marks)
- Q2.** Identify the given specimen-**C** up to species level using key and flora (08 Marks)
- Q3.** Make a temporary preparation of pollen grain of the given specimen-**D** identify and
Describe (08 Marks)
- Q4.** Identify and describe the spots-**E, F, G** and **H** as per the given instructions
(2 spots on morphology; 2 spots on economic importance) (04 Marks)
- Q5.** Viva –Voce (04 marks)



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

BOTANY – CURRICULUM

B.Sc. General (Semester Pattern)

Choice Based Credit System (CBCS) Pattern

B. Sc. THIRD YEAR

Annual Pattern

**PRACTICAL PAPER-XVII: BASED ON THEORY PAPERS-XIII & XV
HERBAL TECHNOLOGY –I & II (Optional –III)**

Practicals:

Maximum Marks – 50

Practical Exercises:

1. Study of composition, preparation and uses of Ayurvedic medicine.
(Triphala, Decotion, Syrup) (3 practicals)
2. Macroscopic and microscopic evaluation of medicinal plants used as –Root drug, Stem drug, Leaf drug, (mentioned in theory) (5 practicals)
3. Study of leaf constant (stomatal number, stomatal index and palisade ratio) (2 practicals)
4. Preliminary phytochemical screening of alkaloids flavonoids, steroids, glycosides, carotenoids (mentioned in syllabus) (2 practicals)
5. Isolation and extraction of crude drug by using soxhlet / reflex assembly.(2 practicals)
6. Separation of alkaloids / flavonoids/ steroid / carotenoids / glycosids drug using paper / TLC / HPTLC.(2 practicals)
7. Quantitative estimation of secondary metabolites (mentioned in theory) (2 practicals)
8. Preparation of herbal formulation (antiseptic creams/hair oils / skin moisturizer / facial creams / shampoo) (2 practicals)
9. Excursion (3-Short and one long excursion are compulsory to visit pharmaceutical industry, field tour, research laboratories)

Note : Minimum of 16 practicals need to be conducted as per the question paper format



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
BOTANY – CURRICULUM
B.Sc. General (CBCS Pattern)

Skeleton Question Paper
B. Sc. THIRD YEAR BOTANY
DSEBP-II, Annual Pattern
PRACTICAL PAPER-XVII: BASED ON THEORY PAPERS-XIII & XV
HERBAL TECHNOLOGY –I & II (Optional –III)

Time: 04 hours

Maximum Marks: 40

-
- Note: - (i) Attempt all questions
(ii) Show your preparation to the examiner
(iii) Draw neat and well labeled diagrams wherever necessary
-

Q No 1. Macroscopic and microscopic evaluation of root/ stem / leaf drug. 10 M

OR

Preparation and study of herbal formulation: hair oil / skin moisturizers / antiseptic
creams / triphalachurna / decoction/ syrup

Q. No. 2. Study of leaf constant (stomatal number, index, palisade ratio) 10 M

OR

Isolation and extraction of crude drug by suitable methods.

Q. No. 3. Preliminary phytochemical test or screening of any two drugs. 10 M

OR

Separation of alkaloids/ flavonoids/ steroids/ carotenoids/ glycosides using paper / TLC /
HPTLC methods.

Q. No. 4. Spotting(6 spots) 06 M

- 01 Root drug.
- 02 Stem drug.
- 03 Leaf drug.
- 04 & 05 Herbal formulations.
- 06 Instrument(identification and working)

Q5. Viva –Voce 04 M



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

**SEMESTER PATTERN CURRICULUM UNDER
CHOICE BASED CREDIT SYSTEM (CBCS) FOR**

Under Graduate (UG) Programme

Faculty of Science and Technology

SUBJECT: BOTANY CLASS: B.Sc. THIRD YEAR

ANNUAL PATTERN

SECB (SKILL ENHANCEMENT COURSE BOTANY)

SECB-III (A)

Periods:45

Credits : 02 (Marks-50)

SECB –III (A) – FLORICULTURE

Unit-I) Fundamentals of Floriculture : Branches of floriculture, Present situation & scope.
Study of floricultural tools used in maintenance and in propagation.

Unit-II) Propagation by runners, suckers, off shoots & other vegetative means. Study of cut flowers, pot plants, seeds and bulbs, essential oil.

Unit-III) Soils and other media, manures and fertilizers, Irrigation. micro irrigation techniques like drip, sprinkler, fogger, fumigation, etc.

Unit-IV) Methods of propagation. Time of Propagation. Handling of seeds, bulbs, cut, flowers, nursery plants, pot plants. Control of diseases, insects and weeds.

Practicals:

- 1) Method of identifying major types of flowering plants (Trees, Shrubs, Climbers, Cacti, Succulents, House plants etc.), Pruning and shaping of the plants.
- 2) Cultural practices like planting time and distances and methods of planting, nutrition, irrigation & plant protection.
- 3) Making of floriculture.
- 4) Visit to flowering plants field.

Reference Books :

1. Floriculture in India-Gurucharan Singh Randhawa.
2. Advances in Floriculture-Suresh Malhotra.
3. Floriculture- APEDA

Note : Minimum of 5 practicals need to be conducted.



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

**SEMESTER PATTERN CURRICULUM UNDER
CHOICE BASED CREDIT SYSTEM (CBCS) FOR**

Under Graduate (UG) Programme

Faculty of Science and Technology

SUBJECT: BOTANY CLASS: B.Sc. THIRD YEAR

ANNUAL PATTERN

SECB (SKILL ENHANCEMENT COURSE BOTANY)

SECB-III (B)

Periods:45

Credits : 02 (Marks-50)

SECB –IIIB – BIOINSTRUMENTATION

Unit I Chromatography and Centrifugation: General principles of separation, paper chromatography, thin layer, affinity, gel permeation, ion exchange, GLC, HPTLC, preparative and analytical centrifugations and their application

Unit II Electrophoresis and Spectroscopy: Basic principles of electrophoresis, Factor affecting electrophoretic mobility, native and denaturing PAGE, isoelectric focusing, 2DE, Pulse field gel electrophoresis. Spectroscopy: Theory and applications of Ultra violet and visible spectroscopy, IR, Nuclear magnetic resonance, Mass and applications.

Practicals

1. Centrifugation
 - a. Isolation of cell organelles like cell membrane, mitochondria, ribosomes etc.
 - b. Determination of molecular weight of protein by centrifugation
2. Chromatography
 - a. Separation of amino acids by paper chromatography
 - b. Separation of sugars by TLC
 - c. Separation of plant pigments by paper/ TLC
 - d. Purification of proteins by Column / ion exchange / Molecular sieve chromatography
3. Electrophoresis
 - a. Separation of soy bean proteins by PAGE

4. Spectroscopy
 - a. Validation of Lambert-Beer's law (Photometer)
 - b. Estimation of DNA by DPA method (UV spectrophotometer)
 - c. Estimation of reducing sugars by DNSA method (VIS-Spectro.)

Note : Minimum of 5 practicals need to be conducted.

Reference Books :

1. Practical Biochemistry Paperback – 2016

by Damodaran Geetha K

2. An Introduction to Practical Biochemistry Paperback – 1 Jul 2017

by David Plummer

3. Practical Biochemistry Paperback – Import, 31 Jan 2013

by R. C. Gupta

4. Practical Biochemistry: A Student Companion Paperback – Import, 10 Jul 2015

by Tiwari Anand

5. Laboratory Manual For Practical Biochemistry Paperback – 2013

by Shivaraja Shankara Ym

6. A Text Book of Practical Biochemistry: 1 Paperback – Large Print, 1 Apr 2006

by Rashmi A. Joshi, Manju Saraswat



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

**SEMESTER PATTERN CURRICULUM UNDER
CHOICE BASED CREDIT SYSTEM (CBCS) FOR**

Under Graduate (UG) Programme

Faculty of Science and Technology

SUBJECT: BOTANY CLASS: B.Sc. THIRD YEAR

ANNUAL PATTERN

SECB (SKILL ENHANCEMENT COURSE BOTANY)

SECB-IV (A)

Periods:45

Credits : 02 (Marks-50)

SECB –IVA – FRUIT AND VEGETABLE PROCESSING

Unit I

Production and processing scenario of fruits and vegetables in India and World, Scope of fruit and vegetable preservation industry in India. present status, constraints and prospects, Overview of principles and preservation methods of fruits and vegetables (Physical and Chemical), Commercial processing technology of fruits and vegetables, Primary processing and pack house handling of fruits and vegetables; Peeling, slicing, cubing, cutting and other size reduction operations for fruits and vegetables, Minimal processing of fruits and vegetables Blanching operations and equipment.

Unit II

Preparation and preservation of juices, squashes, syrups, sherbets, nectars, cordials, etc; Problems on squash and RTS; Processing and equipment for above products and FSSAI specification Preparation, preservation and machines for manufacture of crystallized fruits and preserves, jam, jelly and candies, Preparation, preservation and machines for manufacture of preserve, concentrate, fruit wine, pickles, sauce, paste, ketchup; toffee, cheese, lather, soup powders; FSSAI specification, Commercial processing technology of selected fruits and vegetables for production of various value added processed products.

Practicals :

1. Preparation of jam/ jelly from selected fruit
2. Preparation of RTS beverage e.g. Amala, Mango and Pineapple etc
3. Preparation of squash
4. Preparation of fruit candy
5. Preparation of fruit leather
6. Preparation of fruit toffee
7. Preparation of pickle
8. Preparation of banana and potato wafers
9. Visit to fruits and vegetables processing unit

Note : Minimum of 5 practicals need to be conducted.

Text Books:

Name of Book	Author	Publisher
1. Fruit and Vegetable Preservation Principles and Practices	Srivastava R.P. and Sanjeev Kumar	International Book Distributing Company, New Delhi 2005
2. Post Harvest Technology of Fruits and Vegetables : Handling, Processing, Fermentation and Waste Management vol. I & II	Varma L. R. and Joshi V.K.	Indus Publishing, 2000
3. Preservation of Fruits and Vegetables	Khader	ICAR, New Delhi 2010
4. Preservation of Fruits and Vegetable	G. Lal, G.S. Siddappa, G.L. Tandan	ICAR Publication, New Delhi 1996

Reference Books:

5. Name of Book	Author	Publisher
6. Fruit and Vegetable Processing	M.G. Danthy	FAO, Rome
7. Post harvest Handling and Processing of Fruit and Vegetable	I.S. Singh	Text book
8. Fruit Processing	David Arthey,	Reference book
9. Handbook of Fruit and	Sinha and Hui	John Wiley and

- Vegetable Processing
10. Fruit and Vegetable Preservation -Principles and Practices Srivastava RP & Kumar S Sons, 2010 International Book Distributors, 2003
11. Handbook of Fruit Science &Technology: Production, Composition and Processing. Salunkhe DK & Kadam SS. Marcel Dekker 1995



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

**SEMESTER PATTERN CURRICULUM UNDER
CHOICE BASED CREDIT SYSTEM (CBCS) FOR**

Under Graduate (UG) Programme

Faculty of Science and Technology

SUBJECT: BOTANY CLASS: B.Sc. THIRD YEAR

ANNUAL PATTERN

SECB (SKILL ENHANCEMENT COURSE BOTANY)

SECB-IV (B)

Periods:45

Credits : 02 (Marks-50)

SECB –IVB – HERBAL DRUG TECHNOLOGY

Unit- I

- 1.0 Introduction:
- 1.1 Role of natural products in herbal medicine
- 1.2 General status and importance of herbal medicine
- 1.3 Safety of herbals / herbal pharmacovigilance
- 1.4 WHO policy on herbal medicine
- 2.0 Herbs as raw materials:
 - 2.1 Definition of herb , herbal medicine, herbal medicinal product, herbal drug preparation
 - 2.2 Source of Herbs
 - 2.3 Selection, identification and authentication of herbal materials drying and processing of herbal raw material

Unit -II

3.0 Extraction of Herbal Materials

3.1 Choice of solvent for extraction

3.2 Methods used for extraction and principles involved in extraction

4.0 Standardization of herbal formulations & herbal extracts

4.1 Standardization of herbal extracts as per WHO and cGMP guidelines

4.2 Physical, chemical, Spectral and toxicological standardization, qualitative and quantitative estimations exemplified by the method of preparation of at least two standardized extracts

4.3 Stability studies for extract

4.4 Predictable chemical and galenical changes

Practicals:

1. Qualitative and Quantitative Microscopic Examination: Microscopic evaluation of powder drugs and their mixtures with adulterants
2. Exercises based on standardization and quality control of plant drugs
3. Qualitative and Quantitative Estimation of Phytoconstituents
4. Determination of phytoconstituents in crude drugs and commercial herbal formulations
5. Pharmacopoeial evaluation of natural products
6. Determination of ash values, extractive values, Swelling index and foaming index of crude drugs as per WHO Guidelines
7. Preparation of detailed monograph of at least one plant drug covering Pharmacognosy and Phytochemical investigation with its use in traditional system of medicine
8. Experiment on raw material standardization, purification of extracts with chromatographic techniques
9. Isolation of piperine from pepper
10. Isolation of Hesperidine from orange peel
11. Isolation & TLC of reserpine from Rauwolfia root
12. Isolation & TLC of Menthol from Mentha oil
13. Preparation and Evaluation of Herbal formulations

Note : Minimum of 5 practicals need to be conducted.



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
SEMESTER PATTERN CURRICULUM UNDER
CHOICE BASED CREDIT SYSTEM (CBCS) FOR
Under Graduate (UG) Programme
Faculty of Science and Technology
SUBJECT: BOTANY
CLASS: B.Sc. THIRD YEAR
ANNUAL PATTERN
SECB (SKILL ENHANCEMENT COURSE BOTANY)
SECB-III &IV
END OF SEMESTER EXAMINATION (ESE)

SEAT NO:

MARK SHEET

Sr. No.	END OF SEMESTER EXAMINATION (ESE)	Maximum Marks	Obtained Marks
1	Skill Work report submission	10	
2	Over all skill judgment	10	
3	Skill Work presentation	05	
Total		25	

Name & Signature of:

Examiner- 1:

Examiner- 2:



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
BOTANY – CURRICULUM
B.Sc. General (Semester Pattern)

Selected Readings for Semester-V & VI:

- A text book of systematic botany – R.N.Sutaria
- A textbook of plant physiology and Biochemistry – Verma S.K.
- Aerobiology – S.T.Tilak
- Anb introduction to taxonomy of angiosperms – N.C.Kumar
- Angiosperms – G.L.Chopra
- College botany – Das, Datta & Ganguly
- College Botany- Sunder Rajan S
- College botany Vol-III – B.P.Pandey
- Diseases of crop plants in India – G.Rangaswami
- Diseases of crop plants in India – G.Rangaswami & Mahadevan
- Economic Botany – Hill A.F.
- Economic botany – S.N.Pandey & A. Chanda
- Economic botany – Sharma & Avasthi
- Elements of plant physiology – Sarabhai B.P.
- Essentiales of plant pathology – V.N.Pathak
- Experiments in plant physiology – Bajraracharya D.
- Experments in microbiology, plant pathology, tissue culture & mushroom cultivation – K.R.Aneja
- Flora of Kolhapur – S.R.Yadav & Sardesai
- Flora of Maharashtra – Almeda
- Flora of Marathwada – Chief Ed. By Dr. V.N. Naik
- Flora of Osmanabad – V. N. Naik.
- Flora of Tirupati – Madhed Chetty
- Flowering plants – Origin and dispersal – A.L. Takhtajan
- Fungi and plant diseases – B.B.Mundkur
- Fungicides in plant diseases control – Y.L.Nene
- Illustrated genera of fungi imperfectii – Barnett
- Illustrated kingdom of fungi – D.S.Mukadam
- Introduction to Principles of Plant Pathology – R.S.Singh
- Plant Dieases – R.S.Singh
- Plant Pathaology – B.P.Pandey
- Plant Pathaology – G.N.Agrios
- Plant Pathaology – R.S.Mehrotra
- Plant physiology – Dubey B.P.
- Plant physiology – Shrivastava H.S.
- Plant physiology, a laboratory guide – Wadje S.S. & MMV Baig
- Plant protection – Chattopadhyay
- Pollen morphology of angiosperms – N.P.K.Nair
- Seed pathology – D. Suryanarayana
- Seed pathology – D.K.Jha
- Seed pathology- Paul Neergaard
- Takhtajan A.L. (1997) Diversity and classification of flowering plant – Colubia University, press New York.
- Taxonomy of angiosperms – B.P.Pandey
- Taxonomy of angiosperms – P.C.Vasistha
- Taxonomy of angiosperms – Singh V. & D.K.Jain

- Taxonomy of angiosperms – V.N.Naik
 - Taxonomy of angiosperms – Vasudevan Nair
 - Taxonomy of Vascular plants – Lawrence G.H.M.
 - Text book of Modern plant pathology – K.S.Bilgrami & H.C.Dube
 - The evolution and classification of flowering plants – Cronquist A.
 - Woodland, D.W. (1991) – Contemporary plant systematics : Pentice Hall, New Jersey
 - Pharmacognosy – Kokate et al.
 - Herbal drug technology – Agrawal S.S. and M.Purohit
 - Encyclopedia of medicinal plants used in homoeopathy Vol-1&2 – K.S.Gopi
 - Indian medicinal plants: Forgotten healers, a guide to ayurvedic herbal medicine – Prakash Paranjape
 - Practical pharmacognosy – Khandelwar K.R.
 - Biochemical analysis – S. Sadasivam and A. ManiCkam
 - Pharm forestry: Field guide to medicinal plants – Dinesh kumar Tyagi
 - Modern methods of plant analysis Vol-1&2 – Peach and M.V.trecey
-
- Davis P. H. and Heywood V.H. (1993) – Principles of Angiosperms Taxonomy, Tobert E. Kreigher Pub. Co. New York
 - Grant. V. (1971) – Plant Speciation – Columbia University Press New York.
 - Harrison, H.J. (1971) – New concepts in flowering plant Taxonomy – Hieman Educational Books Ltd. London
 - Heslop – Harrison J. (1967) – Plant Taxonomy- English Language Book Soc. and Edward Arnold Pub. Ltd. UK.
 - Hey wood. V.H. and Moore D.M. (1984) – Current concepts in plant Taxonomy, - Academic press, London.
 - Jones A.D. and Wilbins, A.D. (1971) – Variation and adaptations in plant, species. Hieman & Co-Educational Books Ltd. London.
 - Jones S.B. Jr. and Luchsinger, A.E. (1986) – Plant systmatics (2nd edition), Mc Graw Hill Book Co., New York.
 - Nordenstam, B.EL Gazaly, G. and Kassas, M. Zooo – Plant systematic for 21st Century. Portland press Ltd. London.
-
- Biochemistry by Mathews C.F. (2003) - Addison Wesley, New Delhi
 - Gill P.S. (2000) - Plant Physiology, S.Chand & Co. New Delhi
 - Jain V.K. ():Fundamental of Plant Physiology, S.Chand &Co., New Delhi
 - Jayaraman J. (1992) - Laboratory Manual in Biochemistry, Wiley Eastern Ltd., New Delhi
 - Plant Taxonomy and Bio Systematics (2nd, edition) – Edward Arnold Ltd. London
 - Radford, A.E. (1986) – Fundamentals of plant systematics – Harper & Row Publications, USA.
 - Rastogi (2000) - Biochemistry Tata McGraw Hill, New York
 - Salisbury P.B. & W. Ross (1992) - Plant Physiology , New York Pub. Co. California USA
 - Shrivastava H.S. (1993) - Elements of Biochemistry Rastogi Publication, Meerut
 - Shrivastava H.S.(2000) - Plant Physiology, Rastogi Publication, Meerut
 - Stebbins G.L. (1974) – Flowering plant Evolution Above species level – Edward Arnold Ltd., London.
 - Subhash Chandra Dutta (1992) - Plant Physiology, Wiley Eastern, New Delhi
 - Verma V. (1995) - Text book of Plant Physiology, Emkay Publication N.Delhi
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|---|--|----------------------------------|---|
| □ | A manual of laboratory experiments in cell biology | C Edward Gasque | Universal book Stall, New Delhi. |
| □ | An Introduction to Microbiology | P. Tauro, K.K. Kapoor, K S Yadav | Wiley Eastrevn Limited, New Delhi. |
| □ | Applied Microbiology | Vinita Kale, Kishore Bhusari | Himalaya publishing House, Mumbai. |
| □ | Biochemical methods 2 nd ed. | S. Sadasivam, A. Manickam. | New Age International Publisher (P) Ltd, New Delhi. |

<input type="checkbox"/>	Biotechniques Theory and Practice	S Y S Rana	Rastogi Publications, Meerat 250002
<input type="checkbox"/>	Experiments in Microbiology, Plant Pathology and Tissue Culture	K.R. Aneja,	Wishwa Prakashan, New Delhi.
<input type="checkbox"/>	Frontiers in Applied Microbiology	K.G. Mukerji, N C Pathak, Vedpal Sing	Print Hall, Lucknow
<input type="checkbox"/>	Industrial Microbiology	Richard W Thomas	Dowden, Hutchinson & Ross Inc. Stroudtiury Penasytuna.
<input type="checkbox"/>	Instrumental Methods of Chemical Analysis 5 th Ed.	Galen W Ewing.	Mc Graw Hill International
<input type="checkbox"/>	Microbial Genetics	Stanley R Maloy, John E. Cronan David Freitelder	Narosa Publishing House, New Delhi.
<input type="checkbox"/>	Modern experimental biochemistry 3 rd ed.	Rodney Boyer	Pearson education Inc.
<input type="checkbox"/>	Plant tissue culture	Kalyan Kumar DC	New Central Book Agency (P) Ltd. Calcutta 700009.
<input type="checkbox"/>	Practical Microscopy	Martin and Johnsen	Blackie and Sen Limited, London
<input type="checkbox"/>	Research Experiences in plant physiology.-A Laboratory Mannual	Thomas C. Moore	Springer-Verlag,Berlin.
<input type="checkbox"/>	Biophysical Chemistry.	M. Sataske, Y. Hayashi, M.S. Sethi, S A Iqbal,	Discovery Publishing House (1997) New Delhi – 110002.
<input type="checkbox"/>	Instrumental Methods of Chemical Analysis 5 th Ed.	Galen W Ewing.	Mc Graw Hill International
<input type="checkbox"/>	Practical Microbiology.	R. C. Dubey, D K Maheshwari	S Chand and company Ltd. New Delhi
	A manual of laboratory experiments in cell biology	C Edward Gasque	Universal book Stall, New Delhi.
	An Introduction to Microbiology	P. Tauro, K.K. Kapoor, K S Yadav	Wiley Eastrevn Limited, New Delhi.
	Applied Microbiology	Vinita Kale, Kishore Bhusari	Himalaya publishing Hourse, Mumbai.
	Biochemical methods 2 nd ed.	S. Sadasivam, A. Manickam.	New Age International Publisher (P) Ltd, New Delhi.
	Biotechniques Theory and Practice	S Y S Rana	Rastogi Publications, Meerat 250002
	Experiments in Microbiology, Plant Pathology and Tissue Culture	K.R. Aneja,	Wishwa Prakashan, New Delhi.
	Frontiers in Applied Microbiology	K.G. Mukerji, N C Pathak, Vedpal Sing	Print Hall, Lucknow
	Industrial Microbiology	Richard W Thomas	Dowden, Hutchinson & Ross Inc. Stroudtiury Penasytuna.
	Microbial Genetics	Stanley R Maloy, John E. Cronan David Freitelder	Narosa Publishing House, New Delhi.

Modern experimental biochemistry 3 rd ed.	Rodney Boyer	Pearson education Inc.
Plant tissue culture	Kalyan Kumar DC	New Central Book Agency (P) Ltd. Calcutta 700009.
Practical Microscopy	Martin and Johnsen	Blackie and Sen Limited, London
Research Experiences in plant physiology.-A Laboratory Mannual	Thomas C. Moore	Spinger-Verlag,Berlin.

**SWAMI RAMANAND TEERTH
MARATHWADA UNIVERSITY NANDED**

**CBCS PATTERN FOR
B.A./ B.Sc. MATHEMATICS**

Credit Course Effective From June 2016

For B.A./B. Sc I Year

Semester	Section and Paper Code	Period per week	Paper No. and Title of the papers	Marks of Semester	Internal C.A.	Total Marks	Credits
I	CCM-1 Section A	4	Paper- I Differential Calculus	40	10	50	2
	CCM-1 Section B	4	Paper-II Algebra & Trigonometry	40	10	50	2
II	CCM-2 Section A	4	Paper –III Integral Calculus	40	10	50	2
	CCM-2 Section B	4	Paper- IV Geometry	40	10	50	2
Lab Course work (Annual Pattern Practical)	CCMP-1 Based on CCM- 1&2	3	Paper -V Practical on MATLAB only for B.Sc. Students	80	20 (R.B.=10 V.V=10)	100	4
Total Credits							12

**SWAMI RAMANAND TEERTH MARATHWADA
UNIVERSITY NANDED**

CBCS PATTERN FOR B.A./ B.Sc. MATHEMATICS

Credit Course Effective From 2017-18

For B.A./B. Sc II Year

Semester	Section And Paper Code	Period per week	Paper No. and Title of the papers	Marks of Semester	Internal C.A.	Total Marks	Credits
III	CCM-3 Section A	4	Paper –VI Real Analysis - II	40	10	50	2
	CCM-3 Section B	4	Paper – VII Group Theory	40	10	50	2
	CCM-3 Section C	4	Paper –VIII Ordinary Differential Equations (NOTE:- This Paper is Only For B.Sc. Students.)	40	10	50	2
	SEC-I		Five skill out of which one Skill can be chosen		15×3=45		2*
IV	CCM-4 Section A	4	Paper-IX Real Analysis–II	40	10	50	2
	CCM-4 Section B	4	Paper –X Ring Theory	40	10	50	2
	CCM-4 Section C	4	Paper XI Partial Differential Equation (NOTE:- This Paper is Only	40	10	50	2

			For B. Sc. Students)				
Lab Course work (Annual Pattern Practical)	CCMP-2 Based on CCM-3&4	3	Paper –XII Practical on MATLAB only for B.Sc. Students	80	20 (R.B.=10 V.V=10)	100	4
	SEC-II		Five skill out of which one Skill can be chosen		15×3=45		2*
Total Credits							20

SWAMI RAMANAND TEERTH MARATHWADA

UNIVERSITY NANDED

CBCS PATTERN FOR B.A./ B.Sc. MATHEMATICS

Credit Course Effective From 2018-19

For B.A./B. Sc III Year

Semester	Section Paper Code	Period per week	Title of the papers	External and Internal Exam	Internal C.A.	Total Marks	Credits
V	DSEM-5 Section A	4	Metric Spaces	40	10	50	2
	DSEM-5 Section B	4	Linear Algebra	40	10	50	2
	DSEM-5 Section C	4	Choose any one of the Following Electives papers i) Topology ii) Number Theory iii) Operation Research iv) Introduction to Fuzzy logic	40	10	50	2
	SEC-III		Five skill out of which one Skill can be chosen		15×3=45		2*
VI	DSEM-6 Section A	4	Numerical Analysis	40	10	50	2
	DSEM-6	4	Integral Transforms	40	10	50	2

	Section B						
	DSEM-6 Section C	4	Choose any one of the Following Electives papers i)) Complex Analysis ii) Discrete Mathematics iii) Mechanics iv) Fundamentals of applied Statistics	40	10	50	2
Lab Course work (Annual Pattern Practical)	DSEMP-3 Based on DSEM-5&6	3	Practical on MATLAB only for B.Sc. Students	80	20 (R.B.=10 V.V=10)	100	4
	SEC-IV		Project Work	50			2*
Total Credits							20

**Swami Ramanand Teerth Marathwada University, Nanded
(M.S.).
B.A./B.Sc. First Year
CBCS PATTERN FOR B.A./ B.Sc. MATHEMATICS
SEMESTER - I & II**

Effective from June -2016

B.A/B.Sc. F.Y. Semester- I

(CBCS PATTERN)

**Paper I (MT 101): Differential Calculus
(CCM-1(Section A) For 2 Credits)**

(No. of periods: 60 Max. Marks:50)

Revision: Relation, Functions, Limit, Continuity, Differentiation, Derivatives of some standard functions, Some rules of Differentiation.

Unit I: Hyperbolic functions, Higher order derivatives, n^{th} order derivatives, Leibnitz theorem, Equation of tangent and normal, Angle of intersection of two curves, Length of tangent, normal, sub tangent and subnormal at any point of a curve.

Unit II: Rolle's theorem, Lagrange's mean value theorem, Meaning of sign of derivative, Cauchy's mean value theorem, Generalized mean value theorems (Taylor's theorem, Maclaurin's theorem), Expansions of some functions. Indeterminate forms: $0/0$, ∞/∞ , $0 \cdot \infty$, $\infty - \infty$, 0^0 , 1^∞ , ∞^0 .

Unit III: Functions of two variables, Neighborhood of a point (a,b), Limit & Continuity, Partial derivatives, Geometrical Interpretation, Homogeneous functions, Theorems on total differentials, Equality of $f_{xy}(a,b)$ & $f_{yx}(a,b)$, Equality of f_{xy} & f_{yx} , Taylors theorem for functions of two variables.

TEXT BOOK:

Shanti Narayan, “Differential Calculus” S. Chand & Co.

Scope: Unit I: 4.7, 5.1-5.5, 6.1-6.4.

Unit II: 7.1-7.7, 9.1-9.7.

Unit III : 10.1-10.9, A₁- A₃.

REFERENCES:

- 1) Differential calculus By shanty Narayan and P.K. Mittal ,S. Chand.
- 2) Text book on Differential Calculus”, Gorakh Prasad ,Pothishala Private limited pub.
- 3) Calculus , Schaum’s outline series By Ayres F.Mc Graw Hill,1981
- 4) Differential calculus By Edwards J., Mac Millan and Co. Ltd.
- 5) Introduction to Calculus by Green Span D. , Harper&Row
- 6) Lectures on Calculus and Differential Equations By T M Karadeand M S Bendre, Sonu Nilu Bandu ,Nagpur.
- 7) Theory and Problems on Advance Calculus , Murray and R.. Spiegel , Schaum Pub. Co. New York .
- 8) Advanced Calculus, G.P. Shrivastav, Hari Kishan, Nagendra Kumar, Ram Prasad and sons pub.

B.A/B.Sc. F.Y. Semester- I
(CBCS PATTERN)
Paper II (MT 102): Algebra and Trigonometry
((CCM-1,(Section B) , For 2 Credits))
(No. of periods: 60 Max.Marks:50)

Unit I : Matrices : Matrix, Different Types of Matrices, Equality of Matrices, Addition (Sum) of Two Matrices, Properties of Matrix Addition, Subtraction of Two Matrices, Multiplication of a Matrix by a Scalar, Properties of Multiplication of a Matrix by a Scalar, Multiplication of Two Matrices, Properties of Matrix Multiplication, Positive Integral Powers of a Matrix, Transpose of a Matrix, Conjugate of a Matrix, Transposed Conjugate of a Matrix, Determinant of a Square Matrix, Minor of an Element, Co-factor of an Element, Adjoint of a Square Matrix, Inverse of a Square Matrix, Singular and Non-singular Matrix, Orthogonal Matrices, The Determinant of an Orthogonal Matrix, Unitary Matrix.

Unit II : Rank of a Matrix and Linear Equations : Minor of Order k of a Matrix, Rank of a Matrix, Elementary Row and Column Operations, Elementary Operations, The Inverse of an Elementary Operation, Row and Column Equivalent, Equivalent Matrices, Working Procedure for Finding Rank Using Elementary Operations, Row-Echelon Matrix, Row Rank and Column Rank of a Matrix, Linear Equations, Equivalent Systems, System of Homogeneous Equations.

Characteristic Roots and Characteristic Vectors : Definitions, To Find Characteristic Vectors, Cayley-Hamilton Theorem (Statement Only)

Unit III : Trigonometry : Complex Quantities, DeMoivre's Theorem, Expansions of $\sin n\theta$ and $\cos n\theta$, Expansions of the sine and cosine of an Angle in Series of Ascending Powers of the Angle, Expansions of the sines and cosines of Multiple Angles, and of Powers of sines and cosines, Exponential Series for Complex Quantities, Circular Functions for Complex Angles, Hyperbolic Functions, Inverse Circular Functions, Inverse Hyperbolic Functions.

TEXT BOOK :

Topics in Algebra By Om P. Chug, Kulbhusan Prakash, A.D.Gupta,

Anmol Publications Pvt. Ltd., New Delhi (First Edition 1997)

Scope : Unit I : Chapter 10 : 10.1 to 10.17 (10.13, 10.15, 10.17 Only Statements), 10.20 to 10.22, 10.27 to 10.32, 10.34 to 39 (10.39 Only Statements)

Unit II : Chapter 11 : Art 11.1, 11.2, 11.5 to 11.16, 11.32 to 11.39
Chapter 12 : Art 12.1 to 12.3, 12.18 (Only Statement)

Text Book : 2. Plane Trigonometry Part II By S.L.Loney,

A.I.T.B.S. Publishers and Distributors, Delhi (Reprint 2003)

Scope : Unit III : Art. 17, 18, 19, 21, 22, 27, 32, 33, 42, 43, 44, 45, 46, 47, 56, 57, 58, 59, 60, 61, 62, 63, 67, 68, 69, 71, 73, 74, 76, 77, 79.

REFERENCES :

1. A Text Book of Matrices By Shanti Narayan (S.Chand & Company Ltd., New Delhi)
2. Matrices By A.R.Vasishtha (Krishna Prakashan Media (P) Ltd., Meerut)
3. First Course in Linear Algebra by P.B.Bhattacharya, S.K.Jain, S.R.Nagpaul (New Age International (P) Limited Publishers)

4. Elementary Topics in Algebra By K. Khurana and S.B. Malik. (Vikas Publishing House Pvt. Ltd., New Delhi.)
5. Higher Trigonometry B. C. Das, B. N. Mukherjee, By (U.N.Dhur & Sons Private Ltd. Kolkata)
6. Arihant Trigonometry, Amit M. Agrawal (Arihant Publication Pvt. Ltd).
7. Lectures on Algebra and Trigonometry By T M Karade and M S Bendre, Sonu Nilu Bandu ,Nagpur.
8. Text Book on Trigonometry By R S Verma and K. S. Shukla, Pothishala Private limited pub.
9. Elementary Matrix Algebra By Hohn Franz E, Amerind Pub. Co. Pvt. Ltd.
10. Text Book on Algebra and Theory Of Equations By Chandrika Prasad, Pothishala Private limited pub.

B.A/B.Sc. F.Y. Semester- II
(CBCS PATTERN)
Paper III (MT 103): Integral Calculus
(CCM-2,(Section A) , For 2 Credits)
(No. of periods: 60 Max. Marks:50)

Unit I : Integration, Definition, Standard Forms,

Methods of Integration, Integral of product of two functions, Reduction formulae, Integral of rational fractions, Partial fractions, Non-repeated linear factors, Repeated factors, Integration of Irrational Algebraic fractions, A rational function of a root of a linear expression and x, Integration of $x^m(a + b^n)^p$, Reduction formulae for $\int x^m (a + b^n)^p dx$.

Unit II : Integration of Transcendental Functions :

Integration of $\sin^m x$, $\cos^n x$, reduction formulae for $\int \sin^n x dx$, reduction formulae for $\int \sin^m x \cos^n x dx$, Integration of $\tan^n x$ and $\cot^n x$, Integration of $\sec^n x$ and $\operatorname{cosec}^n x$, Integration of $x^n \sin mx$ or $x^n \cos mx$,
Definite Integrals : Definitions, General properties of the definite integrals, The integral as the limit of a sum, Areas

Unit III : Areas of Curves :

Areas of curve given by Cartesian equations, Areas of curves given by polar equations. Multiple Integrals : Double integrals, Evaluation of double integrals, Area by double integration, Volume under a surface, Triple integrals, Gamma function, Definition, An important property, Product of two single integrals, Value of $\Gamma(1/2)$, Integral of $\sin^{2m-1}x \cos^{2n-1}x$, Beta function, Dirichlet's integral

TEXT BOOK :

Integral Calculus, by Gorakh Prasad, Pothishala Private Limited, 2, Lajpat Road, Allahabad-211002

Scope :

Unit I :

Chapter 1 : 1.10, 1.11, 1.13, 1.3, 1.35, 1.37

Chapter 2 : 2.1, 2.2, 2.3

Chapter 3 : 3.1, 3.8, 3.81

Unit II :

Chapter 4 : 4.1, 4.11, 4.12, 4.2, 4.21, 4.4

Chapter 5 : 5.1, 5.2, 5.3, 5.4, 5.5

Unit III :

Chapter 7 : 7.1, 7.2

Chapter 10 : 10.1, 10.2, 10.3, 10.31, 10.7

Chapter 11 : 11.1, 11.2, 11.3, 11.4, 11.5, 11.6, 11.7

REFERENCES :

[1] *Mathematical Analysis By S.C.Malik & Savita Arora (Second revised edition).*

[2] *Advanced Calculus* by Spiegel M. R., Schaum's Outline Series, McGraw Hill Book Company.

[3] *Calculus A Complete Course* by Robert A. Adams, Pearson Addition Wesley, Toronto.

[4] *Calculus Volumes I, II* by Apostol T. M., Wiley.

[5] *Differential and Integral Calculus Volumes I, II* by N. Piskunov, G. K. Publishers, Noida

[6] Integral calculus by Shanti Narayan and P.K.Mittal,S.Chand and Comp.Ltd.

[7]Advanced Integral calculus by J.K.Goyal and K.P.Gupta,Pragati Prakashan,Meerut.

[8] Integral calculus by U.P.Singh,R.J.Srivastave and N.H.Siddiqui,Dominant Publishers and Distributors New Delhi-110002.

[9] Problems in Mathematical Analysis III: Integration, Kaczor, W.J., Nowak, M.T., University Press.

B.A/B.Sc. F.Y. Semester- II
(CBCS PATTERN)
Paper IV (MT 104): Geometry
(CCM-2, (Section B), For 2 Credits)
(No. of periods: 60 Max.Marks:50)

Unit I : Co-ordinates : Direction cosines of a line, a useful relation, relation between direction cosines, Projection on a straight line, projection of a point on a line, projection of a segment on another line, projection of a broken line, projection of the join of two lines. angle between two lines.

The Plane : Theorem , converse of the preceding theorem, Transformation to the normal form, direction cosines of the normal to a plane, angle between two planes, determination of plane under given conditions, intercept form of the equation of a plane, plane through three

points, system of planes, two sides of a plane, length of perpendicular from a point to a plane, bisectors of angle between two planes.

Unit II : Right line : Representation of line, equation of line through a given point drawn in a given direction, equation of a line through two points, two forms of the equation of line, Transformation from the unsymmetrical to the symmetrical form, angle between a line and a plane, condition for a line to lie in a plane, coplanar lines, condition for coplanarity of lines, Number of arbitrary constants in the equation of straight line, determination of lines satisfying given conditions, the shortest distance between two lines, length of the perpendicular from a point to a line.

Transformation of Co-ordinates: Introduction , change of origin, change of the direction of a axes, relation between direction cosines of three mutual perpendicular lines.

Unit III : The Sphere: Definition, equation of sphere, General equation of a sphere, The sphere through four given points, sphere, plane section of a sphere, intersection of two spheres, sphere with a given diameter, equation of a circle, sphere through a given circle, intersection of a sphere and a line, Power of a point, equation of a tangent plane, plane of contact, the polar plane , pole of plane, some results concerning poles and polars, angle of intersection of two spheres, condition for the orthogonally of two spheres.

Cones, Cylinders: Definition, equation of a cone with a conic as a guiding curve, The right circular cone, definition, the cylinder, equation of a cylinder, the right circular cylinder, definition.

TEXT BOOK :

Analytical Solid Geometry, By Shanti Narayan and Dr. P.K. Mittal

(S. Chand Publication.)

Scope : Unit I : Chapter 1 : Art. 1.6, to 1.8

Chapter 2 : Art. 2.1 to 2.7

Unit II : Chapter 3 : Art. 3.1 to 3.7.

Chapter 5 : Art. 5.1 to 5.2

Unit III : Chapter 6 : Art. 6.1 to 6.7.

REFERENCES

- 1) Analytical Geometry of two and three dimentions, By Quiz Zameeruddin:
Narsoba Pub.
- 2) Text Book on coordinate Geometry, By Gorakh Prasad, H.C. Gupta;
Pothishala Pub.
- 3) Lecturers on Vector Analysis and Geometry, By T.M. Karde and M.S.
Bendre.
- 4) Analytical Geometry of Three dimensions ,By N. Saran and R.S. Gupta ,
Pothishala Pub.
- 5) A Text Book of Analytical Geometry of Three dimensions, By P. K. Jain
and Khalil Ahmad ,Wiley Eastern Ltd.
- 6) Elementary Treatise on Co-ordinate geometry of three Dimensions By
R.J.T. Bell, Mac Millan India Ltd.

B.Sc. F.Y. PRACTICAL PAPER

(Annual pattern)

WITH EFFETIVE FROM June 2016.

CBCS PATTERN

**PAPER V: (MP105): PRACTICAL PAPER:
(CCMP-1, Based on CCM-1 and 2 , For 4 Credits) (No. Of
(Periods per Batch 2 per week , max . marks 100)
SOFTWARES: MATLAB or Related Freeware.**

N.B.: PRACTICAL PAPER IS ONLY FOR B.Sc. Students.

Section 1: Introduction to MATLAB: MATLAB Programming language, Built-in Functions, Graphics, computations, External interface and Tool boxes. Basics of MATLAB: MATLAB windows, desktop, command window, workspace, Figure and Editor Windows, Input-output, File types, platform dependence, Printing. Programming in MATLAB: Scripts and

functions. Script files, function files: Executing of function, writing good functions, sub functions, compiled functions.

Section 2: Interactive computation :- (MATRICES) Matrices and Vectors, input, indexing, matrix manipulation, creating vectors. Matrix and Array operations, Arithmetic operations, Relational operations, logical operations, Elementary math functions, matrix functions, character string. Command line Functions, Inline functions, Anonymous functions .Built-in functions, finding the determinant of matrix, finding eigen-values and eigenvectors.

Saving and loading Data, Importing data files, recording a session. Applications: - Linear Algebra. Solving a linear system, Gaussian elimination, Finding eigenvalues and eigenvectors, matrix factorization, advanced topics.

Section 3: Plotting of Graphs: - Plotting simple Graphs. Graphics: - Plotting of 2D graphs, Using subplot for multiple graphs, 3DPlots (Drawing of different Geometrical objects), saving and Printing.

Reference Book: (for MATLAB Users).

1. Getting Started With MATLAB 7. Rudra Pratap, Oxford University Press, (Indian Eden)www.oup.com, ISBN-0-19-568001-45

Scope Chapter 1: Art. 1.1,1.6. Chapter 3: art 3.1, 3.2, 3.4, 3.5, 3.6, 3.7,

Chapter 4: 4.1, 4.2

Chapter 5: Art. 5.1

Chapter 6: Art 6.1, 6.2, 6.3.

NOTE: 1) Section 1 is introductory part, so no question to be set for Examination.

2) Record book must contain 10 practical on section 2 and 10 Practical on section 3.

B.Sc. F.Y. PRACTICAL PAPER

(Annual pattern)

WITH EFFECTIVE FROM June 2016

(LIST OF PRACTICALS)

N.B.: PRACTICAL PAPER IS ONLY FOR B.Sc. Students

Any twenty of the following practical problems :

- 1) To enter the Matrix A and pick-out following entries from it : A_{11} , A_{21} , A_{22} , A_{23} .
- 2) To find the transpose a matrix.
- 3) For two matrices A and B , to find $A + B$ & $B + A$ and to verify whether the matrix addition is commutative.

- 4) For a square matrix A to find A^2, A^3, A^4, A^5 .
- 5) For two matrices A and B , confirmable for multiplication from both sides, to find AB and BA .
- 6) To verify the associativity of matrix addition.
- 7) To verify both left distributive law and right distributive law.
- 8) To find the determinant of a square matrix.
- 9) To find the inverse of a square matrix.
- 10) To find the rank of the matrices.
- 11) To solve the system of linear equations whose matrix equation is $Ax = b$ and check the solution.
- 12) To find the eigen values of a square matrix.
- 13) To find the eigen vectors of a square matrix.
- 14) To find the characteristic polynomial of a square matrix.
- 15) To find the conjugate a matrix.
- 16) To plot $f(x) = e^{-\frac{x}{10}} \sin x$ for x between 0 and 20.
- 17) To plot $r(\theta) = 1 + 2\sin^2(2\theta)$ for $0 < \theta < 2\pi$.
- 18) To plot the contours of $z = \cos x \cos y \exp\left(-\sqrt{x^2 + y^2}/4\right)$ over the default domains.
- 19) To plot the surface for $z = \frac{-5}{(1+x^2+y^2)}$ over the domain $|x| < 3$ and $|y| < 3$.
- 20) To plot multiple graphs $y_1 = \sin t, y_2 = t, y_3 = 1 - \frac{t^3}{3!} + \frac{t^5}{5!}$ in same figure window.
- 21) To plot $x = e^{-t}, y = t, 0 \leq t \leq 2\pi$.
- 22) To plot $f(t) = t \sin t, 0 \leq t \leq 10\pi$.
- 23) To plot the surface $z = \frac{xy(x^2 - y^2)}{x^2 + y^2}, -3 \leq x \leq 3, -3 \leq y \leq 3$ by computing the values of z over 50 x 50 grid on specified domain.
- 24) To draw a cylinder with base radius $r = 40$ and top radius $r = 60$
- 25) To plot the unit sphere.
- 26) To draw discrete data plot with stems : $x = t, y = t \sin(t), z = e^{\frac{t}{10}} - 1$ for $0 \leq t \leq 6\pi$.
- 27) To draw the MATLAB logo ($z = \cos x \cdot \cos y \cdot e^{-\frac{\sqrt{x^2+y^2}}{4}}$ for $|x| \leq 5, |y| \leq 5$).
- 28) To draw the pie chart for the world population by continents for data.
- 29) To draw the bar chart for the world population by continents for data.
- 30) To plot $x = t, y = e^t, 0 \leq t \leq 2\pi$.

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Swami Ramanand Teerth Marathwada University,
Nanded

Syllabus Outline for B. Sc I Year (Computer Application)
(CBCS Pattern)



Effective from Academic Year (2018-2019)

Syllabus of First Year

B.Sc. Computer Application

Semester	Subject Code	Course Name	Contact Hours			Total Credits
			Lecture(L)	Tutorial(T)	Practical(P)	
Semester – I	BCAPPO01	Algorithms for Solving Problems	3	--	--	02
	BCAPPO02	HTML & Web Page Designing	3	--	--	02
Semester – II	BCAPPO03	Programming with C	3	--	--	02
	BCAPPO04	Data Structure and Analysis	3	--	--	02
	BCAPPO05	Practical (Comp. Lab-I)	--	--	04	04
Total						12

Evaluation Scheme

Theory/ Practical	Semester /Annual	Semester No.	Paper No.	Title of the Paper	Marks						Min. Lectures / Week
					Marks of Semester [Theory + MCQ] 30+10	Internal Evaluation	Experiment	Oral	Record Book	Total	
Theory	Semester	I	I	Algorithms for Solving Problems	30+10	10	---	---	---	50	03
			II	HTML & Web Page Designing	30+10	10	---	---	---	50	03
		II	III	Programming With C	30+10	10	---	---	---	50	03
			IV	Data Structure and Analysis	30+10	10	---	---	---	50	03
Practical	Annual	-	V	Practical (Comp. Lab-I)	---	---	75	15	10	100	03
Total					120 +40	40	75	15	10	300	---
Total Marks for Theory = 50+50+50+50 = 200					Total Lectures / Week /Division for Theory = 06						
Total Marks for Practical = 100					Total Lectures / Week / Batch for Practical = 03						
Total Marks for FY = 200+100=300					Minimum Lectures / Week for FY = 09						
Practical (Comp.Lab-I) Based On Papers II & III											

Paper No-I
Algorithms for Solving Problems

(Marks: 50 Periods: 40)

1. **Fundamentals of Computer** (06 Periods)
Introduction to Computers, Block diagram of Computer, Characteristics of Computers, I/O Devices, I/O ports.
2. **Problem Solving Aspects** (08 Periods)
Introduction to Algorithm, Top Down Designing, Implementation of Algorithm, Analysis of Algorithm, Flowchart, Principles of Flowcharts, Flowcharts Symbols.
3. **Fundamentals of Algorithms** (06 Periods)
Exchanging value of variables, counting numbers, Summation of set of numbers, Factorial computations, Fibonacci number, Reverse of Digits.
4. **Factoring Methods** (06 Periods)
Finding square root of numbers, smallest divisor of integers, greatest common divisor, Generation of prime numbers, prime factor.
5. **Array Techniques** (08 Periods)
Introduction to Array, types of Array, Memory Representation of Array, Reverse of Array, Array counting, Finding maximum and minimum element from Array
6. **Searching & Sorting Techniques** (06 Periods)
Searching Techniques, linear search, binary search, Sorting Techniques:-bubble sort, selection sort.

Text book:

1. How to Solve it by Computer , Dromy R.J
2. Data Structure by Lipschutz Shaum Series

Reference Book:

1. Computer Fundamental by Anita Goel
2. Fundamentals of Computer by Dr. Bichkar & Dr. Sontakke

Paper No–II
HTML & Web Page Designing

(Marks: 50 Periods: 40)

1. **Introduction to Web and Website** (06 periods)
Introduction to Internet, Application and importance of Internet, www, URL, Web Browsers, web server, objectives of website, basic interface design, developing a story board for website, Navigation and links within website, checklist for designing.
2. **Introduction to HTML** (06 periods)
Introduction to HTML, Basic elements, List- ordered/ Numbered list, Unordered/ Bulleted list, Definition list, Nesting list, Linking HTML pages, linking to URL, Text Formatting, Text Alignment, Character Styles, Fonts and Font Sizes, Using colors for the Web, preformatted text, Horizontal line, line break, Displaying special characters.
3. **Images in HTML** (06 periods)
Images in HTML pages, Embedding inline images and external images, images and text alignment, images and links, alternative tags for images, using image as background, displaying images with heights and width dimensions, images preview, image for the web, reducing file size of image file, decreasing the file size by reducing the colour depth of image file,
4. **Tables in HTML** (06 periods)
Introduction to tables, Features of tables, Tables in HTML, components of table, creating table, table cell and border, table and cell color,
5. **Frames, Image Maps** (06 periods)
Introduction to Frames, Creating frames, Frames attributes and linking of frames, complex framesets, Inline frames.
6. **Forms and CGI Scripts** (06 periods)
Introduction to forms, form design, text input fields, radio buttons, check box buttons, and submit button, additional layout features (select tag, Text AREA tag, and Hidden fields)

Reference books:

1. Web Publishing by Mnica D' Souza, Jude D' Souza (TMH Publication)
2. The complete reference HTML & CSS by T.A. Powell (TMH Publication)
3. HTML, DHTML, JavaScript, Perl CGI by IVAN Bayroos (BPB Publication)

Paper- III

Programming with C

(Marks : 50 Periods :
40)

1. **Introduction to C** (05 periods)
Introduction, Character set, C tokens, Data types, Constant, Variables, declaration of storage class, Input / Output Statement, operators, Hierarchy of Operation, Structure of C program.
2. **The Decision and Looping, Control Structure** (08 periods)
If Statement, If-Else statement, Nesting of If-Else, else-if ladder, Switch Statement, Go to. While loop, Do-While loop, For loop.
3. **Arrays and Pointers** (05 periods)
Introduction to Array, One-dimensional arrays: Declaration & Initialization, Two-dimensional arrays: Declaration & Initialization, Multi-dimensional arrays, Introduction, understanding pointers, accessing address of variable, declaring pointer variables, initialization of pointer variable
4. **Storage Classes** (02 periods)
Automatic, Register, Static, Scope rules.
5. **Functions** (07 periods)
Introduction, Definition of function, return values and their types, function calls, function declaration, recursion, passing arrays to functions, What are string, Standard Library string functions: strlen(), strcpy(), strcmp(), strcat().
6. **Structure and Union** (09 periods)
Introduction, defining a structure, defining a structure variable, accessing structure members, initialization of structure, structure within structure, union

Reference Books:

1. C programming by B. Gottfried, Schaum's outline series
2. Programming in ANSI C by E. Balaguruswamy, TATA MCGRAW Hill Publication.
3. Let us C by Yeshwant Kanetkar, BPB Publication.
4. Programming in ANSI and Turbo C by Prof. Kamthane, Pearson Education.

Paper No –IV

Data Structure and Analysis

(Marks : 50 Periods : 40)

1. Role of Algorithms in Computing

(08 periods)

Introduction, Algorithms as a technology, designing Algorithm, divide and conquer technique/ Approach

2. Introduction to Data Structure

(08 periods)

Introduction, Elementary data organization, data structure operations, mathematical notations and functions, Algorithmic notations, control structure.

3. Linked List

(08 periods)

Introduction, Representation of linked list in memory, Traversing, Searching, Unsorted link list, Inserting after given node, deleting node with a given item of information.

4. Stack and Queue

(08 periods)

Introduction, Memory representation of Stack, Push and Pop operation
Queue: Introduction, Memory Representation, Insert & Delete operation.

5. Trees

(08 periods)

Introduction, Binary tree & it's Memory representation, Insertion & Deletion of nodes in binary tree, Threaded binary tree.

6. Graphs

(08 periods)

Introduction, Memory Representation of graphs, types of graphs, Warshall's Algorithm.

Text Book:

1. Data Structure by Lipschitz
2. An Introduction to Data Structure with Application by Jean Paul
3. Introduction to Algorithms, Cormen Charles E. Leiserson, PHI Edition.

Paper No. V

Laboratory Work based on Paper No. II & III Marks 50

At least 20 Practical's based on HTML & Programming with C

॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड
“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)
SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED
“Dnyanteerth”, Vishnupuri, Nanded - 431606 Maharashtra State (INDIA)
Established on 17th September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



ACADEMIC (1-BOARD OF STUDIES) SECTION

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संलग्नित महाविद्यालयांतील विज्ञान व तंत्रज्ञान विद्याशाखेतील पदवी स्तरावरील B.Sc. Third Year Botany या विषयाचा CBCS Pattern नुसारचा सुधारित अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्याबाबत.

परिपत्रक

(संदर्भ: परिपत्रक शैक्षणिक/०१/अभ्यासक्रमे/२०१९, दिनांक २३/०६/२०१८)

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, प्रस्तुत विद्यापीठांतर्गत विज्ञान व तंत्रज्ञान विद्याशाखेचा B.Sc. Third Year Botany या विषयाचा CBCS Pattern नुसारचा पदवी अभ्यासक्रम शैक्षणिक वर्ष २०१८-१९ पासून संदर्भीय परिपत्रकान्वये लागू करण्यात आला होता. सदर अभ्यासक्रमात काही सुधारण करण्यात आल्या असून हा अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्याच्या दृष्टीने मा. कुलगुरू महोदयानी मा. विद्या परिषदेच्या वतीने मान्यता प्रदान केली आहे.

सदरील परिपत्रक व सुधारित अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहे. तरी ही बाब सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,
विष्णुपुरी, नांदेड - ४३१ ६०६.
जा.क्र.:शैक्षणिक- / ०१ / परिपत्रक /
पदवी-सीबीसीएस अभ्यासक्रम / २०१९-२० / १३९२
दिनांक : १९.०९.२०१९.

स्वाक्षरित / -
उपकुलसचिव
शैक्षणिक (१-अभ्यासमंडळ विभाग)

प्रत माहिती व पुढील कार्यवाहीस्तव :

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) मा. अधिष्ठाता विज्ञान व तंत्रज्ञान विद्याशाखा प्रस्तुत विद्यापीठ.
- ४) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ५) उपकुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) साहाय्यक कुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ७) सीनिअर प्रोग्रामर, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.



**SWAMI RAMANAND TEERTH MARATHWADA UNIVERISTY,
NANDED**

**SEMESTER PATTERN CURRICULUM UNDER
CHOICE BASED CREDIT SYSTEM (CBCS) FOR
Under Graduate Programme
Faculty of Science and Technology**

SUBJECT : BOTANY

B.Sc. Third Year

With Effect from June 2019



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
BOTANY – CURRICULUM
B.Sc. General (CBCS Pattern)

Introduction:

The University Grants Commission (UGC) has initiated several measures to bring equity, efficiency and excellence in the Higher Education System of country. The important measures taken to enhance academic standards and quality in higher education include innovation and improvements in the curriculum, teaching-learning process, examination and evaluation systems, besides governance and other matters.

As a result, the grading system is considered to be better than the conventional marks system and hence it has been followed by our university. So, it is desirable to introduce uniform Choice Based Credit System CBCS system. This will facilitate student mobility across institutions, within and across countries and also enable potential employers to assess the performance of students.

The CBCS provides choice for students to select from the prescribed courses (core, elective or minor or soft skill courses). The choice based credit system provides a 'cafeteria' type approach in which the students can take courses of their choice, learn at their own pace, undergo additional courses and acquire more than the required credits, and adopt an interdisciplinary approach to learning. Our university has already introduced the choice based credit system. The semester system accelerates the teaching-learning process and enables vertical and horizontal mobility in learning.

Keeping in mind BoS in Botany prepared the curriculum to ensure up-to-date level of understanding of plant sciences. Studying plant sciences prepares the student for a career working in either an educational institution or an industry in which you can be directly involved in the research and development and Knowledge of modern and applied plant science and excellent career prospects.

The study of Botany aims to expand and increase current knowledge about plants in order to solve problems in many fields including agriculture, ecology, medicine, biotechnology and horticulture. These are some of the objectives kept in mind during drafting the syllabi.

How plants function at the cellular, tissue, organ, and organismal levels? How evolution of plants and how they contribute to biodiversity. How interactions with each other impact their physical environment are the core objectives.

The addition of Skill enhancement course aims to develop skills in plant sciences and practical experience to the students.

At the end of the curriculum, the student should have increased an aptitude towards science and nature, undertakes the fundamental and applied research in plant science for the benefit of the human and nature.

At last comments, suggestions are welcome from all the teachers, stakeholders and students for the upbringing the curriculum.

Salient Features :

The syllabus of B Sc IIIrd year Botany has been framed to meet the requirement of Choice based Credit System. The courses offered here in will train and orient the students in the field of Botany.

The Section A of DSEB deals with Plant Physiology, Plant Metabolism, Biochemistry and Biotechnology. The Section B of DSEB with choice provides an option to learn courses like Plant Pathology-I & II, Systematic Botany-I & II and Herbal Technology-I & II.

This would help students to lay a strong foundation in the field of Botany.

Overall after completion of this course, students will also acquire fundamental knowledge in Plant Science and also understand that Botany is an integral part of the human life and developments.

Skill Enhancement Courses like Fruit and vegetable processing, Herbal drug technology, Floriculture, Bioinstrumentation, Medicinal plant product preparation skill, Fungal biomass production skill (Mushroom cultivation), Fungal biomass production for biocontrol and Algal biomass production skill (*Spirulina* cultivation) offered during this program are designed with the aim of imparting specific skills to the students which will lead to the self employability through development of their own enterprises.

Utility of Course

This program will train and orient the students in the field of Genetics and Molecular Biology , Plant Breeding , Diversity of Plants, Anatomy and Embryology of Angiosperms, Environmental Biology, Plant Physiology, Biochemistry and Biotechnology, Plant Pathology, Systematic Botany and Herbal Technology in relation to Environment and Agriculture as well as Biotechnological, Pharmaceutical and Herbal Industries. This will help the students for their career development.

Skill Enhancement Courses offered during this program will provide additional specific skills to the students for self employability through the development of their own enterprises.

Learning Objectives :

The Objective of this program are :

1. To provide an updated education to the students at large in order to know the importance and scope of the discipline and to provide mobility to students from one university or state to other.
2. To update curriculum by introducing recent advances in the subject and enable the students to face NET, SET, UPSC and other competitive examinations successfully.
3. To impart knowledge of plant science as the basic objective of Education.
4. To develop a scientific attitude to make students open minded, critical and curious.
5. To develop an ability to work on their own and to make them fit for the society.
6. To expose themselves to the diversity amongst life forms.
7. To develop skill in practical work, experiments, equipments and laboratory use along with collection and interpretation of plant materials and data.
8. To make aware of natural resources and environment and the importance of conserving the same.
9. To develop ability for the application of the acquired knowledge in the fields of life so as to make our country self reliant and self sufficient.
10. To appreciate and apply ethical principles to plant science research and studies.

Prerequisite :

The optional courses are offered to the students registered for undergraduate programs. Such students should have the basic knowledge of Plant Science and willing to gain additional knowledge in the field of Botany.



**SWAMI RAMANAND TEERTH MARATHWADA UNIVERISTY,
NANDED**

**SEMESTER PATTERN CURRICULUM UNDER
CHOICE BASED CREDIT SYSTEM (CBCS) FOR
Under Graduate Programme
Faculty of Science and Technology**

SUBJECT : BOTANY

Class : B.Sc. Third Year

An Outline:

Semester/ Annual	Course No		Name of the Course	Total Periods (Periods/ Week)	Marks for		Credits (Marks)
					External (ESE)	Internal (CA)	
Semester-V	DSEB-I	Section -A	Theory Paper- XII: Plant Physiology	45 (03/week)	40	10	Credits:02 (Marks: 50)
		Section -B	Theory Paper- XIII: B I: Plant Pathology-I OR B II: Systematic Botany-I OR B III: Herbal Technology-I	45 (03/week)	40	10	Credits:02 (Marks: 50)
Semester-VI	DSEB- II	Section -A	Theory Paper- XIV: Plant Metabolism, Biochemistry and Biotechnology	45 (03/week)	40	10	Credits:02 (Marks: 50)
		Section -B	Theory Paper- XV: B I: Plant Pathology-II OR B II:	45 (03/week)	40	10	Credits:02 (Marks: 50)

			Systematic Botany-II OR B III: Herbal Technology-II				
Annual Pattern	DSEBP-I (DSEB I & II Section A)	--	Practical Paper XVI: Practicals based on theory papers-XII & XIV	16 Pract. (03/week/ Batch)	40	10	Credits:02 (Marks: 50)
	SECB III	--	SEC- III A Or B	01 Skill (03/week/ Batch)	25	25	Credits:02* (Marks: 50)
Annual Pattern	DSEBP-II (DSEB I & II Section B)	--	Practical Paper XVII: Practicals based on theory papers-XIII & XV	16 Pract. (03/week/ Batch)	40	10	Credits:02 (Marks: 50)
	SECB IV	--	SEC- IV A OR B	01 Skill (03/week/ Batch)	25	25	Credits:02* (Marks: 50)
Total Credits Semester –V & VI					240+50 = 290	60+50 =110	Credits:12+4* = 16 (Marks: 300+100* = 400)

ESE : End Semester Examination, **CA** : Continues Assessment, **SECB**: Skill Enhancement Course Botany, **DSEB**: Discipline Specific Elective Botany, **DSEBP**: Discipline Specific Elective Botany Practical

Distribution of Credits: 80 % of the total credits for the ESE and 20% for CA

CA of 10 Marks (Theory) : 05 Marks for test & 05 Marks for Assignment

CA of 10 Marks (Practicals): : 05 Marks for test & 05 Marks for Record Book ,Submission of collection and field note and Excursion Report.

CA of 25 Marks : 15 Marks for Seminar & 10 Marks for Test



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Semester pattern curriculum under
Choice Based Credit System (CBCS) for
BOTANY
B.Sc. T.Y.
Semester – V
DSEB-I
Theory Paper –XII : Plant Physiology
(Compulsory)

Periods – 45

Maximum Marks – 50

UNIT-I: PLANT WATER RELATIONS (11 periods)

Importance of water in plant life

Different bio-physico-chemical phenomenon: Permeability, Diffusion, Osmosis, Plasmolysis and Imbibition.

Ascent of sap: Introduction and mechanism (transpiration pull theory),

Transpiration: Definition, types, structure of stomata, mechanism of opening and closing of stomata (starch-sugar theory and K⁺ pump theory).

Plant movements: Introduction, classification, paratonic and nastic movements.

UNIT-II: MINERAL NUTRITION (11 periods)

Major and Minor elements: Introduction, source, deficiency symptoms and their role.

Mineral salt absorption: Introduction, mechanism of passive absorption (ion exchange theory) and active absorption (carrier concept theory)

Translocation of organic solutes: Introduction, mechanism of translocation (Munch-Mass flow hypothesis)

UNIT-III: GROWTH AND DEVELOPMENT (12 periods)

Growth and Plant growth regulators: Introduction, phases of growth, measurement of growth (arc indicator and Pfeiffer's auxanometer), factors affecting growth, Chemical nature and practical applications of Auxins, gibberellins, cytokinins, abscisic acid and ethylene.

Seed dormancy: Introduction, causes of seed dormancy and methods of breaking seed dormancy

Seed germination: Introduction, types and mechanism of seed germination,

Physiology of flowering: Introduction, Photoperiodism (LDP, SDP and DNP),

Vernalization and devernalization: Introduction, mechanism and significance,

UNIT-IV: BIOMOLECULES AND SECONDARY METABOLITES (11 periods)

Biomolecules:

Carbohydrates: introduction, structure and classification, Monosaccharides, disaccharides and polysaccharides (starch and cellulose)

Protein- Introduction, classification and biological functions of Primary, secondary (α helix and β sheets), tertiary and quaternary structure

Lipids: Introduction, structure classification and biological functions of lipids

Secondary metabolites: Biological functions of tannins, terpenoids, flavonoids, alkaloids, essential oils and organic acids

Theory paper-XII: Plant physiology (Compulsory)-Unit wise distribution of periods and marks

Unit	Title	Periods Allotted	Maximum Marks
I	Plant Water Relations	11	20
II	Mineral Nutrition	11	20
III	Growth and Development	12	20
IV	Biomolecules and Secondary Metabolites	11	20
Total		45	80



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

BOTANY – CURRICULUM
B.Sc. General (Semester Pattern)
Choice Based Credit System (CBCS)

Skeleton Question Paper
B. Sc. Third Year
Semester – V
Theory Paper-XII

Time: TWO hours

Maximum Marks: 40

- Note: - (i) Attempt all questions
(ii) All questions carry equal marks
(iii) Draw neat and well labeled diagrams wherever necessary

-
- Q1. Attempt any Four of the following (Each of 02 Marks) 08
a)
b)
c)
d)
e)
f)
(Based On Unit I, II, III, IV) Minimum one and maximum two from each Unit
- Q2. Attempt any Two of the following (Each of 04 Marks) 08
a)
b)
c)
(Based On Unit I, II)
- Q3. Attempt any One of the following (Each of 08 Marks) 08
a)
b)
(Based On Unit I, II)
- Q4. Attempt any Two of the following (Each of 04 Marks) 08
a)
b)
c)
(Based On Unit III, IV)
- Q5. Attempt any One of the following (Each of 08 Marks) 08
a)
b)
(Based On Unit III, IV)



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

**Semester pattern curriculum under
Choice Based Credit System (CBCS) for
BOTANY
B.Sc. T.Y.
Semester – V
DSEB-I
Theory Paper –XIII**

**SEMESTER-V (OPTIONAL-I)
PLANT PATHOLOGY-I (B-I)**

Periods – 45

Maximum Marks – 50

UNIT-I : FUNDAMENTALS OF PLANT PATHOLOGY (11 periods)

Scope, importance, history and advancement of plant pathology, classification of plant diseases on the basis of causal organism and symptoms, field and laboratory diagnosis- Isolation of plant pathogens from infected plant parts, soil and air, Pure culture technique, Koch's postulates for pathogenicity.

UNIT-II : PLANT DISEASE DEVELOPMENT (11 periods)

Disease development- Mode of entry of pathogens (through stomata, wounds, root hairs and buds), Factors affecting disease development- Temperature, moisture, wind and soil pH, Dispersal of plant pathogens (by air, water, insects and animals), chemical weapons of pathogen: enzymes, toxins and growth regulators..

UNIT-III : PLANT DISEASES-I (12 periods)

Symptoms, causal organisms, disease cycle and control measures of Green ear of Bajra, leaf spot of tomato, Grain smut of Jowar, Red rot of Sugarcane, Angular leaf spot of cotton, , Bacterial blight of Pomegranate, Anthracnose of mango

UNIT-IV : PLANT DISEASES-II (11 periods)

Symptoms, causal organisms, disease cycle and control measures of White rust of Mustard, Whip smut of Sugarcane, Powdery mildew of pea, Leaf spot of Turmeric (*Colletotrichum capsici*), Citrus canker, Sigatoka disease of Banana, leaf blight of Rice.

Theory paper-XIII: B-I - Plant pathology-I (Optional) – Unit wise distribution of periods and marks :

Unit	Title	Periods Allotted	Maximum Marks
I	Fundamentals of Plant Pathology	11	20
II	Plant Disease Development	11	20
III	Plant Diseases-I	12	20
IV	Plant Diseases-II	11	20
	Total	45	80



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

BOTANY – CURRICULUM
B.Sc. General (Semester Pattern)
Choice Based Credit System (CBCS)

Skeleton Question Paper
B. Sc. Third Year
Semester – V, Plant Pathology-I (Optional-I)
Theory Paper-XIII

Time: TWO hours

Maximum Marks: 40

Note: - (i) Attempt all questions
(ii) All questions carry equal marks
(iii) Draw neat and well labeled diagrams wherever necessary

-
- Q1. Attempt any Four of the following (Each of 02 Marks) 08
a)
b)
c)
d)
e)
f)
(Based On Unit I, II, III, IV) Minimum one and maximum two from each Unit
- Q2. Attempt any Two of the following (Each of 04 Marks) 08
a)
b)
c)
(Based On Unit I, II)
- Q3. Attempt any One of the following (Each of 08 Marks) 08
a)
b)
(Based On Unit I, II)
- Q4. Attempt any Two of the following (Each of 04 Marks) 08
a)
b)
c)
(Based On Unit III, IV)
- Q5. Attempt any One of the following (Each of 08 Marks) 08
a)
b)
(Based On Unit III, IV)



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

**Semester pattern curriculum under
Choice Based Credit System (CBCS) for**

BOTANY

B.Sc. T.Y.

Semester – V

DSEB-I

Theory Paper –XIII

SEMESTER-V (OPTIONAL-II)

SYSTEMATIC BOTANY-I (B-II)

Periods – 45

Maximum Marks – 50

UNIT –I: CLASSIFICATION (11 periods)

Introduction- Definition, aims, scope and application of angiosperms taxonomy, Types of classification- Artificial, Natural and Phylogenetic, Outline of Bentham and Hooker, Engler and Prantl and Hutchinson's systems of classification of angiosperms with merits and demerits

UNIT –II: PRINCIPLES OF TAXONOMY (10 periods)

ICN (International Code of Nomenclature)-Brief history, principle of priority, effective and valid publication, typification and author citation, Species concept- Morphological and biological, Role of phytochemistry, cytology, anatomy and palynology in relation to taxonomy. Pollen morphology with reference to pollen grains of *Hibiscus*, *Ipomoea* and Grasses

UNIT –III: STUDY OF DICOT FAMILIES- I (Polypetalae) (12 periods)

Study of following families according to Bentham and Hooker's system of classification with reference to general characters, pollination, floral formulae, floral diagrams, systematic position, distinguishing features and economic importance

**Papaveraceae, Mimosaceae, Combretaceae, Myrtaceae, Rutaceae, , Cucurbitaceae
Nyctaginaceae (Monochlamydeae)**

UNIT –IV: STUDY OF DICOT FAMILIES-II (Gamopetalae) (12 periods)

Study of following families according to Bentham and Hooker's system of classification with reference to general characters, pollination, floral formulae, floral diagrams, systematic position, distinguishing features and economic importance

Rubiaceae, Apocynaceae, Convolvulaceae, Bignoniaceae, Acanthaceae, Verbenaceae,

Theory paper-XIII: B-II - Systematic Botany-I (Optional-II) - Unit wise distribution of periods and marks:

Unit	Title	Periods Allotted	Maximum Marks
I	Classification	11	20
II	Principles of taxonomy	10	20
III	Study of Dicot families-I	12	20
IV	Study of Dicot Families-II	12	20
Total		45	80



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

BOTANY – CURRICULUM
B.Sc. General (Semester Pattern)
Choice Based Credit System (CBCS)

Skeleton Question Paper
B. Sc. Third Year
Semester – V , Systematic Botany-I (Optional-II)
Theory Paper-XIII

Time: TWO hours

Maximum Marks: 40

Note: - (i) Attempt all questions
(ii) All questions carry equal marks
(iii) Draw neat and well labeled diagrams wherever necessary

- Q1. Attempt any Four of the following (Each of 02 Marks) 08
a)
b)
c)
d)
e)
f)
(Based On Unit I, II, III, IV) Minimum one and maximum two from each Unit
- Q2. Attempt any Two of the following (Each of 04 Marks) 08
a)
b)
c)
(Based On Unit I, II)
- Q3. Attempt any One of the following (Each of 08 Marks) 08
a)
b)
(Based On Unit I, II)
- Q4. Attempt any Two of the following (Each of 04 Marks) 08
a)
b)
c)
(Based On Unit III, IV)
- Q5. Attempt any One of the following (Each of 08 Marks) 08
a)
b)
(Based On Unit III, IV)



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

**Semester pattern curriculum under
Choice Based Credit System (CBCS) for**

BOTANY

B.Sc. T.Y.

Semester – V

DSEB-I

Theory Paper –XIII

**SEMESTER-V (OPTIONAL-III)
HERBAL TECHNOLOGY-I (B-III)**

Periods – 45

Maximum Marks – 50

UNIT-I: MEDICINAL AND AROMATIC PLANTS (MAP) (11 periods)

Introduction, History, importance, demand and supply of MAP in India, Indian systems of medicine- Ayurvedic, Unani, homeopathic, siddha, yoga and naturopathy, tribal medicine sources, Herbal sources, Animal sources, Mineral sources, their collection, purification and processing.

UNIT-II: CRUDE PLANT DRUGS (11 periods)

Definition, Classification- Alphabetic, taxonomic, morphological, chemical, pharmacological and Chemotaxonomic, Methods of cultivation and factors affecting the cultivation of drug plants, Collection, harvesting, drying and storage of crude drugs, organized crude drugs- Leaves, stem, Flowers, fruits, seeds, barks, underground and entire plant drugs, Unorganized drugs- Gums, Mucilage, resins, dried juices, latex and extracts

UNIT-III: PHARMACOGNOTIC STUDIES (11 periods)

Distribution, morphology, anatomical, chemical constituents and uses of Root drugs- Shatavari, Ashwagandha, Stem drugs- Ginger, turmeric, Gulvel, Chandan, Leaf drugs- Adulsa, Korphad (*Aloe*), Fruit drugs- Behda, Hirda and Entire plant drugs- Tulsi and Aghada

UNIT-IV: MEDICINAL PLANT BIOTECHNOLOGY AND STANDARDIZATION OF DRUGS (12periods)

Genetics as applied to medicinal herbs and transgenic plants, Plant tissue culture as source of biomedicines, Importance of drug standardization, Problems of standardization of herbs, Drug adulteration, Methods of drug evaluation- Morphological, microscopic, chemical, physical and Biological. Tissue culture of medicinal important plants, secondary metabolites production (Alkaloids, Flavonoids)

Theory paper-XIII: B-III- Herbal technology-I (Optional-IV) - Unit wise distribution of periods and marks:

Unit	Title	Periods Allotted	Maximum Marks
I	Medicinal and Aromatic Plants (Map)	11	20
II	Crude Plant Drugs	11	20
III	pharmacognostic studies	11	20
IV	Medicinal Plant Biotechnology and Standardization of Drugs	12	20
Total		45	80



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BOTANY – CURRICULUM
B.Sc. General (Semester Pattern)
Choice Based Credit System (CBCS)

Skeleton Question Paper
B. Sc. Third Year
Semester – V , Herbal Technology-I (Optional-III)
Theory Paper-XIII

Time: TWO hours

Maximum Marks: 40

Note: - (i) Attempt all questions
(ii) All questions carry equal marks
(iii) Draw neat and well labeled diagrams wherever necessary

- Q1. Attempt any Four of the following (Each of 02 Marks) 08
a)
b)
c)
d)
e)
f)
(Based On Unit I, II, III, IV) Minimum one and maximum two from each Unit
- Q2. Attempt any Two of the following (Each of 04 Marks) 08
a)
b)
c)
(Based On Unit I, II)
- Q3. Attempt any One of the following (Each of 08 Marks) 08
a)
b)
(Based On Unit I, II)
- Q4. Attempt any Two of the following (Each of 04 Marks) 08
a)
b)
c)
(Based On Unit III, IV)
- Q5. Attempt any One of the following (Each of 08 Marks) 08
a)
b)
(Based On Unit III, IV)



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

**Semester pattern curriculum under
Choice Based Credit System (CBCS) for**

BOTANY

B.Sc. T.Y.

Semester – VI

DSEB -II

**Theory Paper –XIV : Plant Metabolism,
Biochemistry and Biotechnology
(Compulsory)**

Periods – 45

Maximum Marks – 50

UNIT-I: PHOTOSYNTHESIS AND RESPIRATION (12 periods)

Photosynthesis: Introduction, significance, ultra structure of chloroplast, photosynthetic pigments, concepts of two Photo systems, Mechanism of photosynthesis, Light reaction, Hill reaction, Cyclic and Non cyclic photophosphorylation, Dark phase, Calvin cycle (C3) and Hatch and Slack (C4) pathway, CAM pathway

Respiration: Introduction, significance, ultra structure of mitochondria, structure and functions of ATP, **Types of respiration:**

Aerobic respiration- Glycolysis, Krebs' cycle, Electron Transport System.

Anaerobic respiration- Fermentation (alcoholic and lactic acid)

UNIT-II: : ENZYMES AND NITROGEN METABOLISM (11 periods)

Enzymes: Introduction, nomenclature and classification (IUB), mechanism of enzyme action (lock and key model, induced fit model), Concept of holoenzyme, mechanism of regulation of enzyme activity-Feedback and allosteric regulation.

Nitrogen metabolism: Introduction, sources and forms of nitrogen, types of nitrogen fixation-physical and biological (symbiotic and asymbiotic), Ammonification, nitrification and denitrification

UNIT -III: BIOTECHNOLOGY (11periods)

Tissue culture: Introduction and basic aspects of tissue culture, media, culture techniques, cellular totipotency.

Applications of tissue culture: Micropropagation, Production of disease free plants, production of secondary metabolites, Anther culture and production of haploids, protoplast culture and somatic hybridization, synthetic seeds

UNIT-IV: GENETIC ENGINEERING (11 periods)

Introduction, tools and techniques of recombinant DNA technology, Cloning vectors, Gene cloning, Genomic library and cDNA library, *Agrobacterium* mediated gene transfer, transgenic plants.

Bioinformatics: Introduction, Biological database, NCBI, BLAST.

Theory paper-XIV: Plant metabolism, biochemistry and biotechnology (Compulsory) -**Unit wise distribution of periods and marks:**

Unit	Title	Periods Allotted	Maximum Marks
I	Photosynthesis and Respiration	12	20
II	Enzymes and Nitrogen Metabolism	11	20
III	Biotechnology	11	20
IV	Genetic Engineering	11	20
Total		45	80



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

BOTANY – CURRICULUM
B.Sc. General (Semester Pattern)
Choice Based Credit System (CBCS)

Skeleton Question Paper
B. Sc. Third Year
Semester – VI
Theory Paper-XIV

Time: TWO hours

Maximum Marks: 40

-
- Note: - (i) Attempt all questions
(ii) All questions carry equal marks
(iii) Draw neat and well labeled diagrams wherever necessary
-

- Q1. Attempt any Four of the following (Each of 02 Marks) 08
a)
b)
c)
d)
e)
f)
(Based On Unit I, II, III, IV) Minimum one and maximum two from each Unit
- Q2. Attempt any Two of the following (Each of 04 Marks) 08
a)
b)
c)
(Based On Unit I, II)
- Q3. Attempt any One of the following (Each of 08 Marks) 08
a)
b)
(Based On Unit I, II)
- Q4. Attempt any Two of the following (Each of 04 Marks) 08
a)
b)
c)
(Based On Unit III, IV)
- Q5. Attempt any One of the following (Each of 08 Marks) 08
a)
b)
(Based On Unit III, IV)



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

**Semester pattern curriculum under
Choice Based Credit System (CBCS) for**

BOTANY

B.Sc. T.Y.

Semester – VI

DSEB -II

Theory Paper –XV

SEMESTER-VI (OPTIONAL-I)

PLANT PATHOLOGY-II (B-I)

Periods – 45

Maximum Marks – 50

UNIT-I : AEROBIOLOGY AND SEED PATHOLOGY (11 periods)

Aerobiology- Definition, scope and importance and disease forecasting, Seed pathology- Definition, seed borne pathogens (external and internal) detection of seed borne pathogens by blotter paper and agar plate methods, seed treatment (hot water, solar, chemical) and seed certification.

UNIT-II : DEFENSE MECHANISM AND PLANT DISEASE MANAGEMENT (11 periods)

Structural (pre-existing and Post infectional) and biochemical defense-pre-existing and Post infectional (phytoalexins) Exclusion and eradication, Chemical control- General account of Sulphur, Copper, systemic fungicides and antibiotics, Biological control.

UNIT-III : PLANT DISEASES-I (11 periods)

Symptoms, causal organisms, disease cycle and control measures of Tikka disease of groundnut, Ergot of Bajra, Loose smut of Wheat, Rust of Jowar, Phanerogamic parasites(Cuscuta), Leaf curl of tomato.

UNIT-IV : PLANT DISEASES-II (12 periods)

Symptoms, causal organisms, disease cycle and control measures of Downy mildew of Grape, Stem rust of Wheat, Wilt of Tur, late blight of Potato, Grassy shoot of Sugarcane, Papaya mosaic, Rust of Soybean, Leaf spot of cabbage.

Theory paper-XIII: B-I- Plant pathology-II (Optional-I) – Unit wise distribution of periods and marks :

Unit	Title	Periods Allotted	Maximum Marks
I	Aerobiology and Seed Pathology	11	20
II	Defense Mechanism and Plant Disease Management	11	20
III	Plant Diseases-I	11	20
IV	Plant Diseases-II	12	20
	Total	45	80



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

BOTANY – CURRICULUM
B.Sc. General (Semester Pattern)
Choice Based Credit System (CBCS)

Skeleton Question Paper
B. Sc. Third Year
Semester – VI, Plant Pathology-II (Optional-I)
Theory Paper-XV

Time: TWO hours

Maximum Marks: 40

Note: - (i) Attempt all questions
(ii) All questions carry equal marks
(iii) Draw neat and well labeled diagrams wherever necessary

Q1. Attempt any Four of the following (Each of 02 Marks) 08

- a)
- b)
- c)
- d)
- e)
- f)

(Based On Unit I, II, III, IV) Minimum one and maximum two from each Unit

Q2. Attempt any Two of the following (Each of 04 Marks) 08

- a)
- b)
- c)

(Based On Unit I, II)

Q3. Attempt any One of the following (Each of 08 Marks) 08

- a)
- b)

(Based On Unit I, II)

Q4. Attempt any Two of the following (Each of 04 Marks) 08

- a)
- b)
- c)

(Based On Unit III, IV)

Q5. Attempt any One of the following (Each of 08 Marks) 08

- a)
- b)

(Based On Unit III, IV)



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

**Semester pattern curriculum under
Choice Based Credit System (CBCS) for
BOTANY
B.Sc. T.Y.
Semester – VI
DSEB- II
Theory Paper –XV**

**SEMESTER-VI (OPTIONAL-II)
SYSTEMATIC BOTANY-II (B-II)**

Periods – 45

Maximum Marks – 50

UNIT –I: STUDY OF MONOCOT FAMILIES-I (12 periods)

Study of following families according to Bentham and Hooker's system of classification with reference to general characters, pollination, floral formulae, floral diagrams, systematic position, distinguishing features and economic importance

Musaceae, Zingiberaceae, Cannaceae Amaryllidaceae

UNIT –II: STUDY OF MONOCOT FAMILIES-II (12 periods)

Study of following families according to Bentham and Hooker's system of classification with reference to general characters, pollination, floral formulae, floral diagrams, systematic position, distinguishing features and economic importance

Orchidaceae, Commelinaceae, Cyperaceae, palmaceae

UNIT –III: TAXONOMIC TOOLS (10 periods)

Herbarium- Techniques of plant preservation, Importance of herbarium, Botanical gardens- Role in plant taxonomy, Important Botanical gardens, Plant identification key-Types and use

UNIT –IV: ORIGIN OF ANGIOSPERMS (11 periods)

Place and Time of origin of angiosperms, Probable ancestors of Angiosperms: Benettitalean theory, Gnetalean theory, Pteridosperm theory

Theory paper-XV: B-II-Systematic Botany-II (Optional-II) - Unit wise distribution of periods and marks:

Unit	Title	Periods Allotted	Maximum Marks
I	Study of Monocot families	12	20
II	Study of Monocot families	12	20
III	Taxonomic tools	10	20
IV	Origin of angiosperms	11	20
Total		45	80



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

BOTANY – CURRICULUM
B.Sc. General (Semester Pattern)
Choice Based Credit System (CBCS)

Skeleton Question Paper
B. Sc. Third Year
Semester – VI ,Systematic Botany- II
Theory Paper-XV Optional -II

Time: TWO hours

Maximum Marks: 40

Note: - (i) Attempt all questions
(ii) All questions carry equal marks
(iii) Draw neat and well labeled diagrams wherever necessary

Q1. Attempt any Four of the following (Each of 02 Marks) 08

- a)
- b)
- c)
- d)
- e)
- f)

(Based On Unit I, II, III, IV) Minimum one and maximum two from each Unit

Q2. Attempt any Two of the following (Each of 04 Marks) 08

- a)
- b)
- c)

(Based On Unit I, II)

Q3. Attempt any One of the following (Each of 08 Marks) 08

- a)
- b)

(Based On Unit I, II)

Q4. Attempt any Two of the following (Each of 04 Marks) 08

- a)
- b)
- c)

(Based On Unit III, IV)

Q5. Attempt any One of the following (Each of 08 Marks) 08

- a)
- b)

(Based On Unit III, IV)



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Semester pattern curriculum under
Choice Based Credit System (CBCS) for
BOTANY
B.Sc. T.Y.
Semester – VI
DSEB -II
Theory Paper –XV

SEMESTER-VI (OPTIONAL-III)
HERBAL TECHNOLOGY-II (B-III)

Periods – 45

Maximum Marks – 50

UNIT-I: HERBAL FORMULATION (11periods)

Steps of herbal formulation- Grinding, extraction, filtration, concentration, Dosage forms- Infusion, decoction, tincture, capsule, medicated wines, syrups, tablets, ointment and creams, Comparative study of- Ayurvedic and modern dosage forms. Preparation and therapeutic uses of Triphalachurna, Kumariasav, Arjunarishtha (Aristha), Gooti, Vatti and Telam

UNIT-II: DRUG CONSTITUENTS AND BIOSYNTHETIC PATHWAY. (11periods)

Introduction, occurrence and chemistry and Biosynthetic pathway of glycosides, alkaloids and steroids Flavonoids. Alkaloid: Reserpine, Morphin. Glycosides: Glycyrrhizin, Digitoxin. Steroids: Withanoloids. Flavonoids: Quercetin, Ritin. Carotenoids: Lycopene-carotene.

UNIT-III: ANALYTICAL AND CHROMATOGRAPHIC TECHNIQUES. (11 periods)

Principles and applications of spectral techniques in drug analysis: Colorimeter, UV-visible spectrophotometer, IR and NMR spectroscopy, paper chromatography, TLC, HPTLC, column and GC chromatography.

UNIT-IV: HERBAL COSMETICS (12 periods)

Classification of cosmetics, brief account of raw material used for cosmetic preparation, stability testing of herbal cosmetics, quality control and packaging of cosmetics. Study and preparation of skin care product (moisturizing creams and anti-ageing cream, hair care product (Hair oil, shampoos)

Theory paper-XV: B-III- Herbal technology-II (Optional-IV) - Unit wise distribution of periods and marks:

Unit	Title	Periods Allotted	Maximum Marks
I	Herbal Formulation	11	20
II	Drug Constituents and Biosynthetic pathways	11	20
III	Analytical Chromatographic Techniques	11	20
IV	Herbal cosmetics	12	20
Total		45	80



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

BOTANY – CURRICULUM
B.Sc. General (Semester Pattern)
Choice Based Credit System (CBCS)

Skeleton Question Paper
B. Sc. Third Year
Semester – VI, Herbal Technology-II (Optional-III)
Theory Paper-XV

Time: TWO hours

Maximum Marks: 40

Note: - (i) Attempt all questions
(ii) All questions carry equal marks
(iii) Draw neat and well labeled diagrams wherever necessary

Q1. Attempt any Four of the following (Each of 02 Marks) 08

- a)
- b)
- c)
- d)
- e)
- f)

(Based On Unit I, II, III, IV) Minimum one and maximum two from each Unit

Q2. Attempt any Two of the following (Each of 04 Marks) 08

- a)
- b)
- c)

(Based On Unit I, II)

Q3. Attempt any One of the following (Each of 08 Marks) 08

- a)
- b)

(Based On Unit I, II)

Q4. Attempt any Two of the following (Each of 04 Marks) 08

- a)
- b)
- c)

(Based On Unit III, IV)

Q5. Attempt any One of the following (Each of 08 Marks) 08

- a)
- b)

(Based On Unit III, IV)



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

BOTANY – CURRICULUM

B.Sc. General (Semester Pattern)

Choice Based Credit System (CBCS) Pattern

B. Sc. THIRD YEAR

Annual Pattern

PRACTICAL PAPER-XVI: BASED ON THEORY PAPERS-XII & XIV

(Compulsory)

Practicals

Maximum Marks – 50

Practical Exercises:

1. To determine the water potential of potato tuber
2. To determine the osmotic potential of vacuolar sap by plasmolysis
3. To study the effect of temperature on permeability of plasma membrane (Beet root) by using colorimeter / spectrophotometer
4. To study the effect of concentration of different organic solvents on permeability of plasma membrane (Beet root) by using colorimeter/spectrophotometer
5. To study the effect of different organic solvents on permeability of plasma membrane (Beet root) by using colorimeter/ spectrophotometer
6. Separation of photosynthetic pigments by paper chromatography
7. To study the effect of light intensity on rate of photosynthesis
8. Determination of RF value and identification of amino acids in a mixture
9. Preparation of standard graph of starch using Colorimeter/ Spectrophotometer and determination of starch content of the given plant material
10. Preparation of standard graph of glucose using Colorimeter/ Spectrophotometer and determination of glucose content of the given plant material
11. Preparation of standard graph of protein using Colorimeter/ Spectrophotometer and determination of protein content from given plant material
12. To estimate the percentage of oil content in given oil seeds using Soxhlet extractor.
13. Study of catalase activity under different pH
14. Study of catalase activity under different temperature
15. Demonstration of osmosis by potato osmoscope
16. To study the mineral deficiency symptoms in at least four locally available plants
17. Demonstrations of the Arc indicator (lever auxanometer), Clinostat (Geotropism), Kuhn's fermentation tube experiment (Requirements, procedure and workings of the same are expected)
18. Study of tools used in GE/ Tissue culture laboratory for sterilization and inoculation. Principle and working of Autoclave, oven, incubator, Laminar Air flow, Inoculating chamber, callus culture, plantlet, Anther culture and protoplast culture
19. Study major biological databases
20. Study of gene sequence in FASTA Format
21. Qualitative analysis of proteins (Biuret/ Xanthoproteic/ Millon tests)
22. Qualitative analysis of Carbohydrates (Molisch /Fehlings /Benedict's) Glucose, sucrose, starch, Cellulose and Pectin
23. Qualitative test of tannin, terpenoids, saponins, flavonoids and alkaloids
24. Micro chemical test for organic acids – Tartaric acid, Citric acid, Oxalic and Malic acid
25. Botanical Excursions (Two short excursions and one long excursion and visits to laboratories /

companies/ factory etc.)

Note: Minimum of 16 practicals need to be conducted as per the question paper format



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
BOTANY – CURRICULUM
B.Sc. General (CBCS Pattern)

Skeleton Question Paper
B. Sc. THIRD YEAR BOTANY
DSEBP-I Annual Pattern
PRACTICAL PAPER-XVI: BASED ON THEORY PAPER-XII & XIV
(Compulsory)

Time: Four hours

Maximum Marks: 40

-
- Note: -
- (i) Attempt all questions
 - (ii) Show your preparation to the examiner
 - (iii) Draw neat and well labeled diagrams wherever necessary
-

- Q1. Perform any one experiment (From practical exercise 1 to 5) /
Perform any one experiment (From practical exercise 6 to 13) (12 marks)
- Q2. Describe procedure and working of any one experiment (From practical exercise 14 to 17)
(10 marks)
- Q3. Perform any four micro-chemical tests (Protein-1, carbohydrates-1, Secondary metabolites-1,
Organic acids-1) (10 marks)
- Q4. Spotting- Four spots (Instrument- 1, Callus/ Anther/ Protoplast culture- each 1) (04 marks)
- Q5. Viva –Voce (04 marks)



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
BOTANY – CURRICULUM
B.Sc. General (Semester Pattern)

Choice Based Credit System (CBCS) Pattern

B. Sc. THIRD YEAR

Annual Pattern

PRACTICAL PAPER-XVII: BASED ON THEORY PAPERS-XIII & XV

PLANT PATHOLOGY –I & II (Optional –I)

Practicals

Maximum Marks – 50

Practical Exercises:

1. Study of laboratory equipment's- Autoclave, Hot air oven, inoculating chamber, laminar air flow, Air sampler, Incubator, Centrifuge (1 practical)
2. Preparation of culture media – PDA, NA (1 Practical)
3. Micrometry- Calibration of microscope and measurement of fungal spores (1 practical)
4. Isolation of fungal pathogens from diseased plant parts, Toxins & Enzymes (1 practical)
5. Isolation and identification of seed-borne pathogen by blotter / agar plate method (1 Practical)
6. Study of air – borne pathogen by exposed petri plates / air sampler (2 Practical)
7. Proving of pathogenicity (1 Practical)
8. Effect of pH on growth of pathogens (1 Practical)
9. Effect of Temperature on growth of pathogens (1 Practical)
10. Study of symptoms and causal organisms of Stem rust of wheat (1 Practical)
11. Study of symptoms and causal organisms of Late blight of potato and Downy mildew of grapes (1 Practical)
12. Study of symptoms and causal organisms of Tikka disease of groundnut & Anthracnose of guava (1 Practical)
13. study of symptoms and causal organisms of Early Blight of tomato and leaf spot of turmeric (1 Practical)
14. Study of symptoms and causal organisms of Rust of Jowar and Grain smut of Jowar (1 practical)
15. Study of symptoms and causal organisms of Loose smut of Wheat, & leaf blight of rice (1 Practical)
16. Study of symptoms and causal organisms of Green ear and ergot of Bajra (1 Practical)

17. Study of symptoms and causal organisms of wilt of Tur and Whip smut of sugarcane
(1 Practical)
18. Study of symptoms and causal organisms of white rust of Mustard / leaf spot of cabbage
(1 Practical)
19. Study of symptomology of the following diseases-citrus canker, Root knot of tomato, Angular leaf spot of cotton, papaya mosaic , Rust of soybean , sigatoka disease of Banana , Anthracnose of mango , phanerogamic disease due to cuscuta
(3 practicals)
- 20.** Botanical excursions – Several local at least lone long excursion

Note: Minimum of 16 practicals need to be conducted as per the question paper format



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
BOTANY – CURRICULUM
B.Sc. General (CBCS Pattern)

Skeleton Question Paper
B. Sc. THIRD YEAR BOTANY
DSEBP-II-Annual Pattern
PRACTICAL PAPER-XVII: BASED ON THEORY PAPERS-XIII & XV
PLANT PATHOLOGY –I & II (Optional –I)

Time: Four hours

Maximum Marks: 40

-
- Note: -
- (i) Attempt all questions
 - (ii) Show your preparation to the examiner
 - (iii) Draw neat and well labeled diagrams wherever necessary
-

- Q.1 Calibrate the microscope and measure the size of given spores (10)
- Q.2 Identify and describe the symptoms and morphology of causal organism from the given specimen –B (12)
- Q.3 Identify and describe the symptoms of diseased specimen – C&D (10)
- Q.4 Identify and describe the given spots – E,F,G & H (E- Equipment, F- Diseased plant material , G- diseased plant material, H- Plant protectant (04)
- Q5. Viva –Voce (04)



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
BOTANY – CURRICULUM
B.Sc. General (Semester Pattern)

Choice Based Credit System (CBCS) Pattern
B. Sc. THIRD YEAR
Annual Pattern

PRACTICAL PAPER-XVII: BASED ON THEORY PAPERS-XIII & XV
SYSTEMATIC BOTANY –I & II (Optional –II)

Practical :

Maximum Marks – 50

Practical Exercises:

1. Description, identification and classification with sketches, floral formulae and floral diagrams of locally available plants of the following families -
Papaveraceae, Mimosaaceae, Combretaceae, Myrtaceae, Cucurbitaceae, Rutaceae, Rubiaceae, Apocynaceae, Bignoniaceae, Acanthaceae, Convolvulaceae, Verbenaceae, Nyctaginaceae, Musaceae, Cannaceae, Commelinaceae, Cyperaceae (16 practical)
2. Preparation of dichotomous key by studying locally available plants of the same family
(1 practical)
3. Identification of at least six locally available plants up to species level with the help of flora (sketches, floral formulae and floral diagrams are not expected) **(2 practical)**
4. Study of pollen morphology by temporary preparation of pollen grains of Hibiscus, Ipomoea and Grasses by using acetolysis method **(2 practical)**
5. Botanical excursions

Note 1: Student must attend at least one long and two short botanical excursions.

Note 2: Minimum of 16 practicals need to be conducted as per the question paper format



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

BOTANY – CURRICULUM

B.Sc. General (CBCS Pattern)

Skeleton Question Paper

B. Sc. THIRD YEAR BOTANY

DSEBP-II, Annual Pattern

PRACTICAL PAPER-XVII: BASED ON THEORY PAPERS-XIII & XV

SYSTEMATIC BOTANY-I & II (Optional -II)

Time: 04 hours

Maximum Marks: 40

-
- Note: -
- (i) Attempt all questions
 - (ii) Show your preparation to the examiner
 - (iii) Draw neat and well labeled diagrams wherever necessary
-

- Q1.** Describe, identify and classify the given specimen-**A & B** to its respective families
With floral formulae and floral diagrams (16 Marks)
- Q2.** Identify the given specimen-**C** up to species level using key and flora (08 Marks)
- Q3.** Make a temporary preparation of pollen grain of the given specimen-**D** identify and
Describe (08 Marks)
- Q4.** Identify and describe the spots-**E, F, G** and **H** as per the given instructions
(2 spots on morphology; 2 spots on economic importance) (04 Marks)
- Q5.** Viva –Voce (04 marks)



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

BOTANY – CURRICULUM

B.Sc. General (Semester Pattern)

Choice Based Credit System (CBCS) Pattern

B. Sc. THIRD YEAR

Annual Pattern

**PRACTICAL PAPER-XVII: BASED ON THEORY PAPERS-XIII & XV
HERBAL TECHNOLOGY –I & II (Optional –III)**

Practicals:

Maximum Marks – 50

Practical Exercises:

1. Study of composition, preparation and uses of Ayurvedic medicine.
(Triphala, Decotion, Syrup) (3 practicals)
2. Macroscopic and microscopic evaluation of medicinal plants used as –Root drug, Stem drug, Leaf drug, (mentioned in theory) (5 practicals)
3. Study of leaf constant (stomatal number, stomatal index and palisade ratio) (2 practicals)
4. Preliminary phytochemical screening of alkaloids flavonoids, steroids, glycosides, carotenoids (mentioned in syllabus) (2 practicals)
5. Isolation and extraction of crude drug by using soxhlet / reflex assembly.(2 practicals)
6. Separation of alkaloids / flavonoids/ steroid / carotenoids / glycosids drug using paper / TLC / HPTLC.(2 practicals)
7. Quantitative estimation of secondary metabolites (mentioned in theory) (2 practicals)
8. Preparation of herbal formulation (antiseptic creams/hair oils / skin moisturizer / facial creams / shampoo) (2 practicals)
9. Excursion (3-Short and one long excursion are compulsory to visit pharmaceutical industry, field tour, research laboratories)

Note : Minimum of 16 practicals need to be conducted as per the question paper format



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
BOTANY – CURRICULUM
B.Sc. General (CBCS Pattern)

Skeleton Question Paper
B. Sc. THIRD YEAR BOTANY
DSEBP-II, Annual Pattern
PRACTICAL PAPER-XVII: BASED ON THEORY PAPERS-XIII & XV
HERBAL TECHNOLOGY –I & II (Optional –III)

Time: 04 hours

Maximum Marks: 40

-
- Note: - (i) Attempt all questions
(ii) Show your preparation to the examiner
(iii) Draw neat and well labeled diagrams wherever necessary
-

Q No 1. Macroscopic and microscopic evaluation of root/ stem / leaf drug. 10 M

OR

Preparation and study of herbal formulation: hair oil / skin moisturizers / antiseptic creams / triphalachurna / decoction/ syrup

Q. No. 2. Study of leaf constant (stomatal number, index, palisade ratio) 10 M

OR

Isolation and extraction of crude drug by suitable methods.

Q. No. 3. Preliminary phytochemical test or screening of any two drugs. 10 M

OR

Separation of alkaloids/ flavonoids/ steroids/ carotenoids/ glycosides using paper / TLC / HPTLC methods.

Q. No. 4. Spotting(6 spots) 06 M

- 01 Root drug.
- 02 Stem drug.
- 03 Leaf drug.
- 04 & 05 Herbal formulations.
- 06 Instrument(identification and working)

Q5. Viva –Voce 04 M



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

**SEMESTER PATTERN CURRICULUM UNDER
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Under Graduate (UG) Programme

Faculty of Science and Technology

SUBJECT: BOTANY CLASS: B.Sc. THIRD YEAR

ANNUAL PATTERN

SECB (SKILL ENHANCEMENT COURSE BOTANY)

SECB-III (A)

Periods:45

Credits : 02 (Marks-50)

SECB –III (A) – FLORICULTURE

Unit-I) Fundamentals of Floriculture : Branches of floriculture, Present situation & scope.
Study of floricultural tools used in maintenance and in propagation.

Unit-II) Propagation by runners, suckers, off shoots & other vegetative means. Study of cut flowers, pot plants, seeds and bulbs, essential oil.

Unit-III) Soils and other media, manures and fertilizers, Irrigation. micro irrigation techniques like drip, sprinkler, fogger, fumigation, etc.

Unit-IV) Methods of propagation. Time of Propagation. Handling of seeds, bulbs, cut, flowers, nursery plants, pot plants. Control of diseases, insects and weeds.

Practicals:

- 1) Method of identifying major types of flowering plants (Trees, Shrubs, Climbers, Cacti, Succulents, House plants etc.), Pruning and shaping of the plants.
- 2) Cultural practices like planting time and distances and methods of planting, nutrition, irrigation & plant protection.
- 3) Making of floriculture.
- 4) Visit to flowering plants field.

Reference Books :

1. Floriculture in India-Gurucharan Singh Randhawa.
2. Advances in Floriculture-Suresh Malhotra.
3. Floriculture- APEDA

Note : Minimum of 5 practicals need to be conducted.



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SUBJECT: BOTANY CLASS: B.Sc. THIRD YEAR

ANNUAL PATTERN

SECB (SKILL ENHANCEMENT COURSE BOTANY)

SECB-III (B)

Periods:45

Credits : 02 (Marks-50)

SECB –IIIB – BIOINSTRUMENTATION

Unit I Chromatography and Centrifugation: General principles of separation, paper chromatography, thin layer, affinity, gel permeation, ion exchange, GLC, HPTLC, preparative and analytical centrifugations and their application

Unit II Electrophoresis and Spectroscopy: Basic principles of electrophoresis, Factor affecting electrophoretic mobility, native and denaturing PAGE, isoelectric focusing, 2DE, Pulse field gel electrophoresis. Spectroscopy: Theory and applications of Ultra violet and visible spectroscopy, IR, Nuclear magnetic resonance, Mass and applications.

Practicals

1. Centrifugation
 - a. Isolation of cell organelles like cell membrane, mitochondria, ribosomes etc.
 - b. Determination of molecular weight of protein by centrifugation
2. Chromatography
 - a. Separation of amino acids by paper chromatography
 - b. Separation of sugars by TLC
 - c. Separation of plant pigments by paper/ TLC
 - d. Purification of proteins by Column / ion exchange / Molecular sieve chromatography
3. Electrophoresis
 - a. Separation of soy bean proteins by PAGE

4. Spectroscopy
 - a. Validation of Lambert-Beer's law (Photometer)
 - b. Estimation of DNA by DPA method (UV spectrophotometer)
 - c. Estimation of reducing sugars by DNSA method (VIS-Spectro.)

Note : Minimum of 5 practicals need to be conducted.

Reference Books :

1. Practical Biochemistry Paperback – 2016

by Damodaran Geetha K

2. An Introduction to Practical Biochemistry Paperback – 1 Jul 2017

by David Plummer

3. Practical Biochemistry Paperback – Import, 31 Jan 2013

by R. C. Gupta

4. Practical Biochemistry: A Student Companion Paperback – Import, 10 Jul 2015

by Tiwari Anand

5. Laboratory Manual For Practical Biochemistry Paperback – 2013

by Shivaraja Shankara Ym

6. A Text Book of Practical Biochemistry: 1 Paperback – Large Print, 1 Apr 2006

by Rashmi A. Joshi, Manju Saraswat



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SUBJECT: BOTANY CLASS: B.Sc. THIRD YEAR

ANNUAL PATTERN

SECB (SKILL ENHANCEMENT COURSE BOTANY)

SECB-IV (A)

Periods:45

Credits : 02 (Marks-50)

SECB –IVA – FRUIT AND VEGETABLE PROCESSING

Unit I

Production and processing scenario of fruits and vegetables in India and World, Scope of fruit and vegetable preservation industry in India. present status, constraints and prospects, Overview of principles and preservation methods of fruits and vegetables (Physical and Chemical), Commercial processing technology of fruits and vegetables, Primary processing and pack house handling of fruits and vegetables; Peeling, slicing, cubing, cutting and other size reduction operations for fruits and vegetables, Minimal processing of fruits and vegetables Blanching operations and equipment.

Unit II

Preparation and preservation of juices, squashes, syrups, sherbets, nectars, cordials, etc; Problems on squash and RTS; Processing and equipment for above products and FSSAI specification Preparation, preservation and machines for manufacture of crystallized fruits and preserves, jam, jelly and candies, Preparation, preservation and machines for manufacture of preserve, concentrate, fruit wine, pickles, sauce, paste, ketchup; toffee, cheese, lather, soup powders; FSSAI specification, Commercial processing technology of selected fruits and vegetables for production of various value added processed products.

Practicals :

1. Preparation of jam/ jelly from selected fruit
2. Preparation of RTS beverage e.g. Amala, Mango and Pineapple etc
3. Preparation of squash
4. Preparation of fruit candy
5. Preparation of fruit leather
6. Preparation of fruit toffee
7. Preparation of pickle
8. Preparation of banana and potato wafers
9. Visit to fruits and vegetables processing unit

Note : Minimum of 5 practicals need to be conducted.

Text Books:

Name of Book	Author	Publisher
1. Fruit and Vegetable Preservation Principles and Practices	Srivastava R.P. and Sanjeev Kumar	International Book Distributing Company, New Delhi 2005
2. Post Harvest Technology of Fruits and Vegetables : Handling, Processing, Fermentation and Waste Management vol. I & II	Varma L. R. and Joshi V.K.	Indus Publishing, 2000
3. Preservation of Fruits and Vegetables	Khader	ICAR, New Delhi 2010
4. Preservation of Fruits and Vegetable	G. Lal, G.S. Siddappa, G.L. Tandan	ICAR Publication, New Delhi 1996

Reference Books:

5. Name of Book	Author	Publisher
6. Fruit and Vegetable Processing	M.G. Danthy	FAO, Rome
7. Post harvest Handling and Processing of Fruit and Vegetable	I.S. Singh	Text book
8. Fruit Processing	David Arthey,	Reference book
9. Handbook of Fruit and	Sinha and Hui	John Wiley and

- Vegetable Processing
10. Fruit and Vegetable Preservation -Principles and Practices Srivastava RP & Kumar S Sons, 2010 International Book Distributors, 2003
11. Handbook of Fruit Science &Technology: Production, Composition and Processing. Salunkhe DK & Kadam SS. Marcel Dekker 1995



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

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SUBJECT: BOTANY CLASS: B.Sc. THIRD YEAR

ANNUAL PATTERN

SECB (SKILL ENHANCEMENT COURSE BOTANY)

SECB-IV (B)

Periods:45

Credits : 02 (Marks-50)

SECB –IVB – HERBAL DRUG TECHNOLOGY

Unit- I

- 1.0 Introduction:
- 1.1 Role of natural products in herbal medicine
- 1.2 General status and importance of herbal medicine
- 1.3 Safety of herbals / herbal pharmacovigilance
- 1.4 WHO policy on herbal medicine
- 2.0 Herbs as raw materials:
 - 2.1 Definition of herb , herbal medicine, herbal medicinal product, herbal drug preparation
 - 2.2 Source of Herbs
 - 2.3 Selection, identification and authentication of herbal materials drying and processing of herbal raw material

Unit -II

3.0 Extraction of Herbal Materials

3.1 Choice of solvent for extraction

3.2 Methods used for extraction and principles involved in extraction

4.0 Standardization of herbal formulations & herbal extracts

4.1 Standardization of herbal extracts as per WHO and cGMP guidelines

4.2 Physical, chemical, Spectral and toxicological standardization, qualitative and quantitative estimations exemplified by the method of preparation of at least two standardized extracts

4.3 Stability studies for extract

4.4 Predictable chemical and galenical changes

Practicals:

1. Qualitative and Quantitative Microscopic Examination: Microscopic evaluation of powder drugs and their mixtures with adulterants
2. Exercises based on standardization and quality control of plant drugs
3. Qualitative and Quantitative Estimation of Phytoconstituents
4. Determination of phytoconstituents in crude drugs and commercial herbal formulations
5. Pharmacopoeial evaluation of natural products
6. Determination of ash values, extractive values, Swelling index and foaming index of crude drugs as per WHO Guidelines
7. Preparation of detailed monograph of at least one plant drug covering Pharmacognosy and Phytochemical investigation with its use in traditional system of medicine
8. Experiment on raw material standardization, purification of extracts with chromatographic techniques
9. Isolation of piperine from pepper
10. Isolation of Hesperidine from orange peel
11. Isolation & TLC of reserpine from Rauwolfia root
12. Isolation & TLC of Menthol from Mentha oil
13. Preparation and Evaluation of Herbal formulations

Note : Minimum of 5 practicals need to be conducted.



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
SEMESTER PATTERN CURRICULUM UNDER
CHOICE BASED CREDIT SYSTEM (CBCS) FOR
Under Graduate (UG) Programme
Faculty of Science and Technology
SUBJECT: BOTANY
CLASS: B.Sc. THIRD YEAR
ANNUAL PATTERN
SECB (SKILL ENHANCEMENT COURSE BOTANY)
SECB-III &IV
END OF SEMESTER EXAMINATION (ESE)

SEAT NO:

MARK SHEET

Sr. No.	END OF SEMESTER EXAMINATION (ESE)	Maximum Marks	Obtained Marks
1	Skill Work report submission	10	
2	Over all skill judgment	10	
3	Skill Work presentation	05	
Total		25	

Name & Signature of:

Examiner- 1:

Examiner- 2:



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
BOTANY – CURRICULUM
B.Sc. General (Semester Pattern)

Selected Readings for Semester-V & VI:

- A text book of systematic botany – R.N.Sutaria
- A textbook of plant physiology and Biochemistry – Verma S.K.
- Aerobiology – S.T.Tilak
- Anb introduction to taxonomy of angiosperms – N.C.Kumar
- Angiosperms – G.L.Chopra
- College botany – Das, Datta & Ganguly
- College Botany- Sunder Rajan S
- College botany Vol-III – B.P.Pandey
- Diseases of crop plants in India – G.Rangaswami
- Diseases of crop plants in India – G.Rangaswami & Mahadevan
- Economic Botany – Hill A.F.
- Economic botany – S.N.Pandey & A. Chanda
- Economic botany – Sharma & Avasthi
- Elements of plant physiology – Sarabhai B.P.
- Essentiales of plant pathology – V.N.Pathak
- Experiments in plant physiology – Bajraracharya D.
- Experiments in microbiology, plant pathology, tissue culture & mushroom cultivation – K.R.Aneja
- Flora of Kolhapur – S.R.Yadav & Sardesai
- Flora of Maharashtra – Almeda
- Flora of Marathwada – Chief Ed. By Dr. V.N. Naik
- Flora of Osmanabad – V. N. Naik.
- Flora of Tirupati – Madhed Chetty
- Flowering plants – Origin and dispersal – A.L. Takhtajan
- Fungi and plant diseases – B.B.Mundkur
- Fungicides in plant diseases control – Y.L.Nene
- Illustrated genera of fungi imperfectii – Barnett
- Illustrated kingdom of fungi – D.S.Mukadam
- Introduction to Principles of Plant Pathology – R.S.Singh
- Plant Dieases – R.S.Singh
- Plant Pathaology – B.P.Pandey
- Plant Pathaology – G.N.Agrios
- Plant Pathaology – R.S.Mehrotra
- Plant physiology – Dubey B.P.
- Plant physiology – Shrivastava H.S.
- Plant physiology, a laboratory guide – Wadje S.S. & MMV Baig
- Plant protection – Chattopadhyay
- Pollen morphology of angiosperms – N.P.K.Nair
- Seed pathology – D. Suryanarayana
- Seed pathology – D.K.Jha
- Seed pathology- Paul Neergaard
- Takhtajan A.L. (1997) Diversity and classification of flowering plant – Colubia University, press New York.
- Taxonomy of angiosperms – B.P.Pandey
- Taxonomy of angiosperms – P.C.Vasistha
- Taxonomy of angiosperms – Singh V. & D.K.Jain

- Taxonomy of angiosperms – V.N.Naik
 - Taxonomy of angiosperms – Vasudevan Nair
 - Taxonomy of Vascular plants – Lawrence G.H.M.
 - Text book of Modern plant pathology – K.S.Bilgrami & H.C.Dube
 - The evolution and classification of flowering plants – Cronquist A.
 - Woodland, D.W. (1991) – Contemporary plant systematics : Pentice Hall, New Jersey
 - Pharmacognosy – Kokate et al.
 - Herbal drug technology – Agrawal S.S. and M.Purohit
 - Encyclopedia of medicinal plants used in homoeopathy Vol-1&2 – K.S.Gopi
 - Indian medicinal plants: Forgotten healers, a guide to ayurvedic herbal medicine – Prakash Paranjape
 - Practical pharmacognosy – Khandelwar K.R.
 - Biochemical analysis – S. Sadasivam and A. ManiCkam
 - Pharm forestry: Field guide to medicinal plants – Dinesh kumar Tyagi
 - Modern methods of plant analysis Vol-1&2 – Peach and M.V.trecey
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- Davis P. H. and Heywood V.H. (1993) – Principles of Angiosperms Taxonomy, Tobert E. Kreigher Pub. Co. New York
 - Grant. V. (1971) – Plant Speciation – Columbia University Press New York.
 - Harrison, H.J. (1971) – New concepts in flowering plant Taxonomy – Hieman Educational Books Ltd. London
 - Heslop – Harrison J. (1967) – Plant Taxonomy- English Language Book Soc. and Edward Arnold Pub. Ltd. UK.
 - Hey wood. V.H. and Moore D.M. (1984) – Current concepts in plant Taxonomy, - Academic press, London.
 - Jones A.D. and Wilbins, A.D. (1971) – Variation and adaptations in plant, species. Hieman & Co-Educational Books Ltd. London.
 - Jones S.B. Jr. and Luchsinger, A.E. (1986) – Plant systmatics (2nd edition), Mc Graw Hill Book Co., New York.
 - Nordenstam, B.EL Gazaly, G. and Kassas, M. Zooo – Plant systematic for 21st Century. Portland press Ltd. London.
-
- Biochemistry by Mathews C.F. (2003) - Addison Wesley, New Delhi
 - Gill P.S. (2000) - Plant Physiology, S.Chand & Co. New Delhi
 - Jain V.K. ():Fundamental of Plant Physiology, S.Chand &Co., New Delhi
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|---|--|----------------------------------|---|
| □ | A manual of laboratory experiments in cell biology | C Edward Gasque | Universal book Stall, New Delhi. |
| □ | An Introduction to Microbiology | P. Tauro, K.K. Kapoor, K S Yadav | Wiley Eastrevn Limited, New Delhi. |
| □ | Applied Microbiology | Vinita Kale, Kishore Bhusari | Himalaya publishing House, Mumbai. |
| □ | Biochemical methods 2 nd ed. | S. Sadasivam, A. Manickam. | New Age International Publisher (P) Ltd, New Delhi. |

<input type="checkbox"/>	Biotechniques Theory and Practice	S Y S Rana	Rastogi Publications, Meerat 250002
<input type="checkbox"/>	Experiments in Microbiology, Plant Pathology and Tissue Culture	K.R. Aneja,	Wishwa Prakashan, New Delhi.
<input type="checkbox"/>	Frontiers in Applied Microbiology	K.G. Mukerji, N C Pathak, Vedpal Sing	Print Hall, Lucknow
<input type="checkbox"/>	Industrial Microbiology	Richard W Thomas	Dowden, Hutchinson & Ross Inc. Stroudtiury Penasytuna.
<input type="checkbox"/>	Instrumental Methods of Chemical Analysis 5 th Ed.	Galen W Ewing.	Mc Graw Hill International
<input type="checkbox"/>	Microbial Genetics	Stanley R Maloy, John E. Cronan David Freitelder	Narosa Publishing House, New Delhi.
<input type="checkbox"/>	Modern experimental biochemistry 3 rd ed.	Rodney Boyer	Pearson education Inc.
<input type="checkbox"/>	Plant tissue culture	Kalyan Kumar DC	New Central Book Agency (P) Ltd. Calcutta 700009.
<input type="checkbox"/>	Practical Microscopy	Martin and Johnsen	Blackie and Sen Limited, London
<input type="checkbox"/>	Research Experiences in plant physiology.-A Laboratory Mannual	Thomas C. Moore	Spinger-Verlag,Berlin.
<input type="checkbox"/>	Biophysical Chemistry.	M. Sataske, Y. Hayashi, M.S. Sethi, S A Iqbal,	Discovery Publishing House (1997) New Delhi – 110002.
<input type="checkbox"/>	Instrumental Methods of Chemical Analysis 5 th Ed.	Galen W Ewing.	Mc Graw Hill International
<input type="checkbox"/>	Practical Microbiology.	R. C. Dubey, D K Maheshwari	S Chand and company Ltd. New Delhi
	A manual of laboratory experiments in cell biology	C Edward Gasque	Universal book Stall, New Delhi.
	An Introduction to Microbiology	P. Tauro, K.K. Kapoor, K S Yadav	Wiley Eastrevn Limited, New Delhi.
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Practical Microscopy	Martin and Johnsen	Blackie and Sen Limited, London
Research Experiences in plant physiology.-A Laboratory Mannual	Thomas C. Moore	Spinger-Verlag,Berlin.

॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

“Dnyanteerth”, Vishnupuri, Nanded - 431606 Maharashtra State (INDIA)

Established on 17th September 1994 – Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



ACADEMIC (1-BOARD OF STUDIES) SECTION

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संलग्नित महाविद्यालयांतील विज्ञान व तंत्रज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे CBCS Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ०८ जून २०१९ रोजी संपन्न झालेल्या ४४व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.११/४४-२०१९ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील विज्ञान व तंत्रज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्यात येत आहेत.

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|---|---------------------------------------|
| 1. Agricultural Microbiology | 18. Dyes and Drugs |
| 2. Agrochemicals & Fertilizers | 19. Electronics |
| 3. Analytical Chemistry | 20. Environmental Science |
| 4. B.C.A. | 21. Fishery Science |
| 5. B.Voc. (Food Processing, Preservation and Storage) | 22. Food Science |
| 6. B.Voc. (Web Printing Technology) | 23. Geology |
| 7. Biochemistry | 24. Horticulture |
| 8. Bioinformatics | 25. Industrial Chemistry |
| 9. Biophysics | 26. Information Technology (Optional) |
| 10. Biotechnology (Vocational) | 27. Mathematics |
| 11. Biotechnonology | 28. Microbiology |
| 12. Botany | 29. Network Technology |
| 13. Chemistry | 30. Physics |
| 14. Computer Application (Optional) | 31. Software Engineering |
| 15. Computer Science (Optional) | 32. Statistics |
| 16. Computer Science | 33. Zoology |
| 17. Dairy Science | |

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,
विष्णुपुरी, नांदेड - ४३१ ६०६.
जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदवी-सीबीसीएस अभ्यासक्रम/
२०१९-२०/२९२

दिनांक : ०३.०७.२०१९.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) साहाय्यक कुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) उपकुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

स्वाक्षरित / -

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग

Swami Ramanand Teerth Marathwada University, Nanded



SYLLABUS

B. Sc. First Year (Chemistry)

Semester-I & II

C B C S

In force from June - 2019

Aims and Objectives.

- 1 B. Sc. First year, Chemistry syllabus has been framed as per UGC-CBCS pattern.
- 2 The students are expected to understand the fundamentals, principles, mathematical concepts and recent developments in the subject area.
- 3 To enable the students to understand basic concepts, nomenclature, functional groups, hydrocarbons, aromaticity, and fundamental term in organic chemistry.
- 4 The students are able to know the elements present in nature & its properties.
- 5 The practical course is in relevance to the theory courses to improve the understanding of concepts in chemistry.
- 6 It would help in development of practical skills of the students.
- 7 It is expected to inspire the students towards competitive exams in chemistry

Distribution of credits for B.Sc. Chemistry (optional)

Under Faculty of Science & Technology

B. Sc. Syllabus structure

Semester Pattern (CBCS) effective from June, 2019

Subject: Chemistry

Total credits semester I and II: 12

Semester	Paper No.	Name of the Course	Instruction Hrs/ week	Total period	Internal CA	ESE	Total Marks	Credits
I	CCC I (Section A)	Organic + Inorganic Chemistry, P-I	02+01=03	30+15=45	10	40	50	2
	CCC I (Section B)	Physical + Inorganic Chemistry, P-II	02+01=03	30+15=45	10	40	50	2
II	CCC II (Section A)	Organic + Inorganic Chemistry, P-III	02+01=03	30+15=45	10	40	50	2
	CCC II (Section B)	Physical + Inorganic Chemistry, P-IV	02+01=03	30+15=45	10	40	50	2
	CCC P-I (CCC- I & II), (section A&B)	Practical's based on Section A & Section B of CCC- I & CCCC- II (P-V)	04	20 Practicals	20	80	100	4

Note:

- The syllabus is based on six theory periods and four practical periods per batch per week. Candidates should require passing separately in theory and practical examinations.
- End Semester Examination (ESE) 40 marks .
- Continuous Assessment (CA) 10 marks (Test of assignment and attendance).
- At least twenty practicals should be taken: **6** practicals from Inorganic Chemistry, **8** from Organic and **6** from Physical Chemistry.

B.Sc. Chemistry First Year (Semester-I)

Paper-I: Organic + Inorganic Chemistry, (CCC-I)

Credits: 02

Periods: 45

Section-A (Organic Chemistry)

Unit-1

1. Nomenclature of Organic Compounds: 07

Functional groups and types of organic compounds, Basic rules of IUPAC Nomenclature, Nomenclature of mono and bi- functional compounds on the basis of priority order of following classes of organic compounds: alkanes, alkenes, alkynes, alcohols, ethers, aldehydes, ketones, carboxylic acid, carboxylic acid derivatives (acid halides, esters, anhydrides, amides), amines; Nomenclature of aromatic compounds: Mono, di and polysubstituted benzene (with not more than two functional groups),

Unit-1I

2. Basic Concepts in Organic Chemistry: 09

Basic terms: Substrate and Reagents, types of reagents (Electrophilic and Nucleophilic).

Notation of arrows: curved arrow, Half headed arrow, double headed arrow, straight arrow. Bond fission: Homolytic and heterolytic fission.

Reaction intermediates: Carbocation, Carbanion, Free radical, (Introduction, structure & Stability), carbene, nitrene & benzyne (only introduction).

Electron mobility: Inductive effect (effect on acidic strength of alpha substituted acetic acid and α -chloroacetic acid), Mesomeric effect (Aniline and Nitrobenzene), Hyperconjugation (toluene).

Unit-III

3. Alkanes Alkenes and alkynes: 08

3.1 Alkanes: Introduction, Preparation of alkanes from a) Hydrolysis of Grignard reagent b) Kolbes synthesis. Chemical reaction: a) Pyrolysis (mechanism), b) aromatization.

3.2 Alkenes: Introduction, Preparation methods a) But-1-ene from but-1-yne b) But-2-ene from butan-2-ol.

Chemical reactions with mechanism: a) Electrophilic addition of Br_2 to ethene b) Electrophilic addition of HBr to propene C) Free radical addition of HBr to propene (Peroxide effect).

3.3 Alkynes: Introduction, Preparation of ethyne from a) Iodoform, b)Hydrolysis of calcium carbide. Chemical reactions: Electrophilic addition of HBr and Br₂ to ethyne (with mechanism).

Unit-IV

4. Cycloalkanes, Cycloalkenes and Dienes : 06

4.1 Cycloalkanes: Introduction, Preparation of cycloalkanes from a)Adipic acid
b)Aromatic hydrocarbon.

Baeyer strain theory and Saches Mohr theory. Ring opening reaction with H₂ and HI.

4.2 Cycloalkenes: Introduction, preparation methods:

- a) Dehydration of cyclohexanol ,
- b) Dehydrohalogenation of halocyclohexane.

Chemical reactions: a) Epoxidation of cyclohexene, b) Allylic halogenations.

4.2 Dienes: Introduction, classification & Resonance structures.

Preparation methods of 1,3-butadiene from- a) 1,4-dibromobutane,
b)1,4-butanediol.

Chemical reactions: a) addition of Br₂ and HBr to 1,3-butadiene, b) addition of ethene to 1,3-butadiene (Diel's- Alder reaction).

(Section –B : Inorganic Chemistry)

Unit- V

1 Periodic Table and Periodic Properties: 10P

A] Periodic Table:

Modern periodic law, Long form of the periodic table, Sketch, Cause of periodicity, Division of elements in to s, p, d, and f blocks. General characteristics of s, p, d and f block elements.

B] Periodic properties:

a) Atomic and Ionic size: Definition and explanation of atomic radius, ionic radius, Covalent radius, Vander waals radius. Variation of atomic size along a period and in a group.

b) Ionization Energy: Definition and Explanation, Successive ionization energy, Factors affecting ionization energy. Variation of ionization energy along a period and in a group. Applications of ionization energy to chemical behavior of an element.

c) Electron Affinity: Definition and Explanation, Successive electron affinity, Factors affecting electron affinity. Variation of electron affinity along a period and in a group. Applications of electron affinity to chemical behavior of an element. Difference between ionization energy and electron affinity.

d) Electronegativity: Definition and Explanation, Factors affecting electronegativity. Variation of electronegativity along a period and in a group. Pauling's approach of electronegativity. Calculations of electronegativity by Pauling's method (Numerical), Mulliken's approach. Applications of electronegativity to bond properties such as percent ionic character, bond length, bond angle.

Unit- VI

Noble Gas Chemistry:

05

- a) Position in the Periodic table b) Electronic configuration
- c) Compounds of inert gases, under excited condition, through coordination, by physical trapping (Clathrates).
- d) Fluorides of xenon: XeF₂, XeF₄ and XeF₆ preparation, properties and structures.

Outcomes:

After completion of syllabus students will be able to understand following outcomes.

1. Student should learn basic concept of organic chemistry, Nomenclature.
2. Student get well acquainted with functional group in organic chemistry.
3. To understand the basic concepts and differences aliphatic hydrocarbons.
4. To know about term cycloalkane, cycloalkene and diene.
5. Learn and practice about organic compounds with their names.
6. Students learn some exceptional electronic configuration, trends and Periodicity in the following properties like atomic size, ionization energy, electron affinity & electronegativity.
7. To understand the inert gases forms compounds, different fluoride compounds of xenon.

Reference:

1. A New Pattern Text Book of Organic Chemistry for Competition: O.P.Tandon and A.K.Virman (G.R.Bathla& Sons Publication) 2009 Edition
2. Chemistry for Degree Students: R.L.Madan (S.Chand Publication) 2010 Edition
3. A Textbook of Organic Chemistry: ArunBahl and B.S. Bahl (S.Chand Publication) 2011 Revised Colour Edition.
4. Organic chemistry: S M Mukherji and S P Singh, (New Age International Publication) vol.I, Second edition, 2010.
5. Principles of Organic Chemistry by R.O.C. Norman and J.M. Coxon.
6. Organic Chemistry by Robert Thornton Morrison and Robert Neilson Boyd
7. A Guide book to mechanism on Organic Chemistry: Peter Sykes.
8. Text Book of organic Chemistry: P. L. Soni.
9. Principles of Inorganic chemistry by Puri, Sharma and Kalia.
10. Advanced inorganic chemistry by Gurudeep Raj and ChatwalAnand.
11. Concise Inorganic Chemistry by J. D. Lee.
12. Basic Inorganic Chemistry by F. A. Cotton, G. Wilkinson and P. L. Gaus.
13. Inorganic Chemistry by A. G. Sharp.
14. Inorganic Chemistry by G. L. Miessler and D. A. Tarr.
15. Chemistry for degree students by Dr. R.L. Madan, (S. Chand)

B. Sc. First Year (Semester-I)

Paper-II (CCC-I)

Physical + Inorganic Chemistry

Credits: 02

Periods: 45

Section A -(Physical Chemistry)

Unit-I: Mathematical concept and SI Units

07 P

(A) Mathematical concept:

- 1.1 Logarithm: Rules of logarithm, Characteristic and Mantissa, Change of sign and base, Numerical problems.
- 1.2 Definition of pH and pOH, Relation between pH and POH, Numerical Problems based on pH and OH.
- 1.3 Graphical representation: Rules for drawing graph, coordinates etc., Equation of straight lines, slope and intercept and Numerical Problems.
- 1.4 Derivative: Rules of differentiation, partial differentiation, Algebraic, logarithmic and exponential functions.
- 1.5 Integration: - Rules of integration, Algebraic and exponential functions.
- 1.6 Permutation, combinations and Probability, Numerical Problems.

(B) SI Units:

- 1.7 International systems of units, derived units, subsidiary units, prefixes used in SI units, internal conversions of these units.

Unit -II: Surface Chemistry

07P

- 2.1 Introduction, Adsorption, mechanism of adsorption, factors affecting adsorption.
- 2.2 Difference between adsorption and absorption.
- 2.3 Types of adsorption: Physical adsorption and chemical adsorption.
- 2.4 Adsorption of gaseous by solids. Adsorption isotherm, Types of adsorption isotherm:
i) Freundlich adsorption isotherm ii) Langmuir adsorption isotherm (Derivation).

Unit-III :Gaseous State

09P

- 3.1 Kinetic molecular theory of gases -Postulates of kinetic molecular theory of gases. Derivation of kinetic gas equation. Ideal and non-ideal gases.
- 3.2 Deviation of gases from Ideal behavior and Compressibility factor (Z). Derivation of Van der waals equation, Units for Van der waals constants.

- 3.3 Critical phenomenon-The P-V isotherms of Carbon dioxide, application of Vander Waals' equation to the isotherms of Carbon dioxide, relation between critical constants and Van der Waals constants..
- 3.4 Liquefaction of gases, Linde's method, Claude's method.
- 3.5 Molecular velocities-Root mean square, average and most probable velocities, Relation between molecular velocities, qualitative discussion of the Maxwell's distribution of molecular velocities.
- 3.6 Numerical on Vander Waals constants and Critical constants, Root mean square velocities.

Unit-IV : Solid state

07P

- 4.1 Introduction, Characteristics of solids, space lattice and Unit Cell.
- 4.2 Laws of crystallography :-(i) Law of constancy of interfacial angles, (ii) Law of symmetry, Symmetry elements in crystals and (iii) Law of rational indices.
- 4.3 Weiss indices and Miller indices, Determination of Miller indices. Numerical on Miller indices
- 4.4 Cubic Unit cells and types of cubic unit cells, spacing of lattice planes.
- 4.5 X-rays crystallography, Derivation of Bragg's equation. Experimental methods- The Rotating Crystal method and The Powder method.
- 4.6 Determination of crystal structure of NaCl and KCl on the basis of Bragg's equation.

(Section –B : Inorganic Chemistry)

Unit- V

A) S-Block elements:

10

General characteristics of S-block elements Variation in properties of S-block elements, atomic radii , ionization potential, colour of flame, reducing property and metallic property, diagonal relationship between Li and Mg, Points of difference between Li and other alkali metals. General study of hydrides of IA and IIA group. General studies of Oxides IA and IIA group, Basic strength of hydroxides of alkali and alkaline earth metals , Carbonates and bicarbonates of alkali and alkaline earth metals. Complexes of alkali metals with salicylaldehyde ,acetylacetone. wrap around complexes with polydentate ligand such as crown ether and cryptate. Complexes of alkaline earth metals such as beryllium oxalate ion, chlorophyll and complex of calcium with EDTA.

B) Oxidation and reduction:**05**

Definition of oxidation, Reduction, Oxidizing agent and reducing agents according to classical concept , electronic concept, oxidation number concept. Rules for assigning oxidation number, Balancing of redox reaction by

- 1) Ion-electron method and
- 2) Oxidation number method

Outcomes: After completion of syllabus students will be able to understand following outcomes.

1. Learning and understanding rules of logarithm, Rules of drawing graph, Derivatives, Integration , different mathematical concept and SI units, and their use in solving numerical.
2. Learning surface phenomena at heterogeneous surfaces.
3. Student will learn the basic knowledge of gas phase, Kinetic molecular theory, critical phenomenon , liquefaction and molecular velocities.
4. To impart knowledge about solid phase, crystallography and some crystal structure.
5. General characteristics of s-block elements, oxides, hydroxide, carbonate & its complexes
6. Study the oxidation and reduction by different methods.

Reference Books:-

1. Mathematical preparation for physical Chemistry .By F. Daniel, Mc. Graw Hill publication.
- 2 . University General Chemistry. By C.N. R. Rao Mc. Millan Publication.
2. Principles of Physical Chemistry. By Maron and Pruton 4th Ed. Oxford and IBH publication.
- 4 . Physical Chemistry. By G.M. Barrow. th
5. Essentials of Physical Chemistry .By B. S. Bahl, G. D. Tuli, ArunBahl (S. Chand and Co Ltd.) (25 edition)
- 6 . Elements of Physical Chemistry.By S. Glasstone and D. Lewis (The Macmillan Press Ltd.)
- 7 . Physical Chemistry. By Robert A. Alberty(John Willey and Sons)
8. Principles of Physical Chemistry. By Puri– Sharma.
9. The Elements of Physical Chemistry .By P. W. Atkins
- 10 . Advanced Physical Chemistry.By Harish Gurudeep.
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14. Basic Inorganic Chemistry by F. A. Cotton, G. Wilkinson and P. L. Gaus.
- 15 . Inorganic Chemistry by A. G. Sharp.
- 16 . Inorganic Chemistry by G. L. Miessler and D. A. Tarr.
17. Chemistry for Degree Students ,B.Sc F.Y by Dr. R.L. Madan(S. Chand)

B.Sc. Chemistry First Year (Semester-II)

Paper-III: Organic + Inorganic Chemistry, (CCC-II)

Credits: 02

Periods: 45

Section-A (Organic Chemistry)

Unit-I : Aromatic Hydrocarbons and Aromaticity 09

Introduction, Nomenclature, Kekulé and resonance structure of benzene, stability, Orbital picture of benzene. Aromaticity and antiaromaticity by Huckel's Rule (Benzene, Naphthalene, Anthracene, Pyrrole, Furan, Thiophene, Pyridine, Cyclopentadienyl cation and anion, Cyclopropenyl cation). Electrophilic Substitution reaction of benzene (with mechanism): Nitration, Halogenation, Friedel Craft alkylation and acylation. **Orientation effect:** Effect of activating and deactivating groups (-OH, NO₂, CH₃, Cl) on aromatic electrophilic (Nitration) substitution reaction (with mechanism)

Unit-II: 1. Phenols 05

Introduction, classification and acidic character of phenol (compare with ethanol). Chemical reactions with mechanism: Reimer-Tiemann reaction, Acetylation, Fries rearrangement, Kolbe's carboxylation reaction.

2: Haloalkenes and Haloarenes 06

2.1 Haloalkenes:

a) Vinyl Chloride: synthesis of vinyl chloride from 1) 1, 2-dichloroethane 2) ethene
Chemical reactions: Addition reaction with HBr, polymerization reaction.

b) Allyl Iodide: synthesis of allyl iodide from 1) allyl chloride 2) glycerol and HI.
Chemical reactions: reaction with NaOH, KCN, & Br₂.

2.2 Haloarenes:

Introduction, Synthesis of halobenzene from 1) Hunsdiecker reaction 2) Gattermann reaction. Chemical reactions (with mechanism): Ullmann biaryl synthesis. Resonance & Relative reactivity of alkyl halides v/s vinyl and aryl halides towards nucleophilic substitution reactions.

Unit-III : Carboxylic acid derivatives: 05

A) Acid Chlorides: Introduction, preparation methods: 1) From acetic acid and thionyl chloride, 2) From acetic acid and phosphorous pentachloride. Chemical reactions: (Hydrolysis, Action with alcohol, Action with amines).

B) Acid anhydrides: Introduction, preparation methods: **1)** From acetyl chloride and carboxylic acid, **2)** From acetyl chloride and sodium acetate. Chemical reactions: (Hydrolysis, Action with alcohol, Action with amines).

C) Esters: Introduction, preparation methods: **1)** From ethyl alcohol and acetic acid, **2)** From ethyl alcohol and acetyl chloride. Chemical reactions: (Hydrolysis, Action of amines, Reduction).

D) Amides: Introduction, preparation methods: **1)** From ammonia and acetyl chloride **2)** From ammonia and acetic anhydride. Chemical reaction: (Hydrolysis, Action of nitrous acid).

Unit- IV: Alcohols and epoxides

05

A) Alcohols: Introduction and Classification.

a) **Dihydric alcohol (ethylene glycol):** Preparation methods: (Hydroxylation of alkene and From 1,2-dihaloalkane). Chemical reactions: [Reaction of ethylene glycol with, 1) $\text{Pb}(\text{OAc})_4$, 2) $\text{P}_2\text{O}_5/\text{ZnCl}_2$].

b) **Trihydric alcohol (Glycerol):** Preparation methods from: 1) Oils and fats 2) Propene. Chemical reactions: [Reactions of glycerol with, 1) Nitric acid, 2) Acetyl chloride].

B) Epoxides : Introduction and nomenclature. Preparation methods:

a) Oxidation of ethene in presence of Ag catalyst, b) Oxidation of ethene with per acetic acid. Chemical reactions: (Ring opening reactions of propylene oxide in acidic

b) and basic medium/reagent,

Section –B : Inorganic Chemistry.

Unit IV : Study of P-block elements: 05

Variation in properties : atomic radius, ionization energy, electron affinity, electronegativity , metallic character , melting and boiling point , oxidizing and reducing properties , Variation in acidic and basic character of hydroxides of P-block elements , diagonal relationship between B and Si .

Unit-V : Acids and Bases.: 10

Introduction, Arrhenius concept, Bronsted-Lowry concept, Lewis acids and bases concept Discuss briefly with suitable example.

Solvent system concept, Cady-Elsey concept, Lux-Flood concept and Usanovich concept for acids and bases.

Definition of Hard, Soft and borderline acids and bases with various example.

Pearson's principle (SHAB Principle), theories of hardness and softness such as Electronic theory, pi- bonding theory and Pitzer's theory.

Application of SHAB Principle such as relative stability of compound, feasibility of chemical reaction. Limitation of SHAB concept.

Outcomes: After completion of syllabus students will be able to understand following outcomes.

1. Student should learn the concept of aromatic hydrocarbons, Aromaticity and antiaromaticity.
2. Student should understand the phenols and synthesis of phenols
3. Student knows about the haloalkene and haloarenes compounds.
4. To know the concepts of carboxylic acids and their derivatives.
5. To know about the types of alcohols and reaction of epoxide.
6. To study the different properties of P- block elements.
7. To know the acids & Bases by different concepts.

Reference:

1. A New Pattern Text Book of Organic Chemistry for Competition: O.P.Tandon and A.K.Virmani (G.R.Bathla& Sons Publication) 2009 Edition
2. Chemistry for Degree Students: R.L.Madan (S.Chand Publication) 2010 Edition
3. A Textbook of Organic Chemistry: ArunBahl and B.S. Bahl (S.Chand Publication) 2011, Revised Colour Edition.
4. Organic chemistry: S M Mukherji and S P Singh, (New Age International Publication) vol.I, Second edition, 2010.
5. Principles of Organic Chemistry by R.O.C. Norman and J.M. Coxon.
6. Organic Chemistry by Robert Thornton Morrison and Robert Neilson Boyd
7. A Guide book to mechanism on Organic Chemistry: Peter Sykes.
8. Text Book of organic Chemistry: P. L. Soni.
9. Principles of Inorganic chemistry by Puri, Sharma and Kalia.
10. Advanced inorganic chemistry by Gurudeep Raj and ChatwalAnand.
11. Concise Inorganic Chemistry by J. D. Lee.
12. Basic Inorganic Chemistry by F. A. Cotton, G. Wilkinson and P. L. Gaus.
13. Inorganic Chemistry by A. G. Sharp.
14. Inorganic Chemistry by G. L. Miessler and D. A. Tarr.
15. Chemistry for degree students by Dr. R.L. Madan, (S. Chand)

B. Sc. First Year (Semester-II)
Paper-IV (CCC-II)
Physical + Inorganic Chemistry

Credits:02

Periods: 45

Section A (Physical Chemistry)

Unit-I : Atomic structure: 08P

- 1.1 Introduction, Rutherford's alpha particle scattering experiment, Rutherford's atomic model and its drawbacks.
- 1.2 Bohr's theory of hydrogen atom: Bohr's atomic model- Postulates, Merits and demerits. Derivation for radius of an orbit, velocity of an electron and energy of an electron. Energy difference in terms of wave number and Rydberg constant. Bohr's explanation of hydrogen spectrum. The Sommerfeld extension of the Bohr theory.
- 1.3 Electronic configuration of elements: Aufbau principle, Pauli's Exclusion principle, Hund's rule of maximum multiplicity and $(n + 1)$ rule.
- 1.5 Quantum numbers.
- 1.4 Numerical problems on radius and energy.

Unit- II: Liquid state : 07P

- 2.1 Introduction, Various intermolecular forces in liquids dipole-dipole attraction, London forces, Hydrogen bonding.
- 2.2 Surface tension of liquid, units of surface tension, effect of temperature on surface tension, determination of surface tension of liquids by stalagmometer method, numerical Problems based on method.
- 2.3 Viscosity of liquid, units of viscosity, effect of temperature on viscosity, measurement of viscosity by Ostwald's method, numerical Problems based on method.
- 2.4 Parachor and chemical constitution: Relation between parachor and surface tension, application of parachors in deciding structures.

Unit- III: Colloidal state 07P

- 3.1 Introduction , classification of colloidal systems.
- 3.2 Sols (Solids in liquids):-Types of sols, Preparation of sols, Dispersion and aggregation methods. Properties of sols- Colour, Optical (Tyndall effect), Kinetic (Brownian movement) and electrical properties (electrophoresis and electro osmosis). Coagulation of colloidal solution –Hardy Schulze rule. Protective action of sol and Gold Number.

- 3.3 Emulsions (Liquids in liquids):- Types of emulsions, preparation of emulsion, Emulsifier, Role of emulsifier.
- 3.4 Gels (Liquids in solids):- Classification gels, preparation of gel and properties gel – Hydration, Swelling, Syneresis and Thixotropy.
- 3.5 Applications of colloids (Food, Medicine, smoke precipitation, sewage precipitation and in purification of water.)

Unit- IV: Catalysis

08P

- 4.1 Introduction to Catalyst and Catalysis.
- 4.2 Catalyst-Type of catalyst, positive and negative catalyst with examples.
- 4.3 Catalysis:-Type of catalysis, homogenous and heterogeneous catalysis with examples
- 4.4 Autocatalysis- explanation with examples.
- 4.5 Characteristics of catalytic reactions.
- 4.6 Promoters: - Definition, example, explanation of promotion action.
- 4.7 Catalytic poisoning: - Definition, example, explanation of catalytic poisoning.
- 4.8 Acid – Base catalysis, General Acid-Base catalysis,examples.
- 4.9 Enzyme catalysis, examples, mechanism of enzyme catalysis, characteristics of enzyme catalysis.
- 4.10 Applications of catalysis in industries.

Section –B : Inorganic Chemistry.

Unit- V: Chemical Bonding-I

10

- 1.1 Definition, Cause for chemical bonding, Types of chemical bonding.
- 1.2 ***Ionic Bonding***: Definition and explanation, Factors affecting the formation of ionic bond, Energy charges in the formation of ionic bond, Lattice energy and Born-Haber cycle. Polarizing power and polarisability and Fajan's rule.
- 1.3 ***Covalent bonding*** : Definition and explanation, Sigma and pi-bond, Valence bond theory of covalent bonding and its limitations, Percentage ionic character in covalent bond from dipole moment and electronegativity difference (Numericals).
- 1.4 ***Metallic bonding***: Definition and explanation, Free electron theory of metallic bonding, Effects of metallic bonding on metallic properties.
- 1.5 ***Vander Waal's bonding***: Definition and explanation, Types of Vander Waal's forces responsible for Vander waals bonding.

- 1.6 **Hydrogen bonding:** Definition and explanation, Types of hydrogen bonding and consequences of hydrogen bonding. Unique properties of water based on hydrogen bonding. Importance of hydrogen bonding in sustaining life.

Unit-VI : Chemical Bonding –II

05

2.1 **Concept of hybridization:** Definition and explanation of dsp² hybridization by taking example of [Ni(CN)₄]²⁻, sp³d hybridization by taking example PCl₅, Sp³d² hybridization by taking example SF₆. Sp³d³ hybridization by taking example IF₇.

2.2 **VSEPR Theory:** Postulates and explanation, Applications in explaining geometry and bond angle in molecules such as CH₄, NH₃, and H₂O. Limitations of VSEPR theory.

2.3 **Molecular Orbital Theory:** Basic principle of MOT, LCAO, Bonding and anti-bonding molecular orbital, Energy level diagram for molecular orbital. Rules for adding electrons in MO's, Bond order,

Molecular orbital diagram of homo nuclear diatomic molecules such as H₂, N₂, O₂, and Ne₂ And CO.

Outcomes: After completion of syllabus students will be able to understand following outcomes.

1. To impart knowledge of atomic structure, different theories of atomic structure, rules of electronic configuration and quantum numbers.
2. Learning of properties of liquid phase as surface tension, Viscosity and parachor.
3. Student will learn the basic knowledge of colloidal state, types, preparation, properties and applications of colloidal state.
4. Learning and understanding of catalysis, types of catalysis and characteristics of catalyzed reactions.
5. To understanding the chemical bond and its different types of bonds.
6. Learning the Concept of hybridization and study of VSEPR & Molecular Orbital theory.

Reference Books:-

1. Mathematical preparation for physical Chemistry .By F. Daniel, Mc. Graw Hill publication.
- 2 .University General Chemistry. By C.N. R. Rao Mc. Millan Publication.
3. Principles of Physical Chemistry. By Maron and Pruton 4th Ed. Oxford and IBH publication.
- 4 .Physical Chemistry.By G.M. Barrow. th
5. Essentials of Physical Chemistry .By B. S. Bahl, G. D. Tuli, ArunBahl (S. Chand and Co Ltd.) (25 edition)
- 6 .Elements of Physical Chemistry.By S. Glasstone and D. Lewis (The Macmillan Press Ltd.)
- 7 .Physical Chemistry. By Robert A. Alberty(John Willey and Sons)
8. Principles of Physical Chemistry. By Puri– Sharma.
9. The Elements of Physical Chemistry .By P. W. Atkins
- 10 .Advanced Physical Chemistry.By Harish Gurudeep.
- 11 .Principles of Inorganic chemistry by Puri, Sharma and Kalia.
12. Advanced inorganic chemistry by Gurudeep Raj and ChatwalAnand.
13. Concise Inorganic Chemistry by J. D. Lee.
14. Basic Inorganic Chemistry by F. A. Cotton, G. Wilkinson and P. L. Gaus.
- 15 .Inorganic Chemistry by A. G. Sharp.
- 16 .Inorganic Chemistry by G. L. Miessler and D. A. Tarr.
17. Chemistry for Degree Students ,B.Sc F.Y by Dr. R.L. Madan(S. Chand)

B.Sc. First Year
Paper-V [CCCP-I]
credits: 04 Periods : 120

Note : At least Sixteen experiments should be taken.

A) Inorganic Chemistry

Identification of Two acidic and Two basic radicals by Semi-micro qualitative analysis technique.(Including interfering radicals). (**Any Six**)

- 1) At least eight mixtures of salt must be practiced.
- 2) Spot- tests (of each radical) are compulsory.

B) Organic Chemistry

I) Preparations (**Any Four**) :

- a) Phthalimide from phthalic anhydride and urea. b) Acetanilide from aniline.
- c) Iodoform from acetone.
- d) Phenyl – azo – β – naphthol from aniline. e) m-Dinitobenzene from nitrobenzene.
- f) Phthalic anhydride from phthalic acid.

(Recrystallization and Melting point of product is compulsory)

II) Determination of Physical constant of Organic liquids (**Any four**)

Aniline, Ethanol, Toluene, Benzene, ortho and meta toluidines, Chlorobenzene and Nitrobenzene.

III) Demonstration on purification by -

- a) Recrystallisation of Phthalic acid/Benzoic acid from hot water.
- b) Distillation of Ethyl alcohol.
- c) Sublimation of Naphthalene.

C) Physical Chemistry (Any Six)

1. Determination of the Viscosity of liquid by Ostwald's viscometer.
2. Determination of the Viscosity of two pure liquids A & B. Hence find the composition of the mixture of two liquids. (Density data of liquids, viscosity of water to be given).

[Any two liquids from : Acetone, Carbon tetrachloride, Chloroform, Ethyl alcohol, Benzyl alcohol, Ethylene glycol and n-propyl alcohol].

3. To determine the surface tension of a given liquid by stalagmometer method.
4. Determine the equivalent weight of magnesium by hydrogen displacement method using Eudiometer.

5. To study Kinetics of hydrolysis of ester in presence of mineral acid like HCl.
6. Preparation of As_2S_3 solution from As_2O_3 and compare the precipitation power of NaCl and $MgCl_2$.
7. To study distribution of benzoic acid between benzene and water.
8. To study critical solution temperature (CST) of phenol water system.
9. Determination of Heat of solution of KNO_3/NH_4Cl .
10. Determination of Heat of reaction of displacement of copper by zinc.
11. To study kinetics of cooling of hot water.

Reference Books :

1. Advanced practical Inorganic chemistry by Gurudeep Raj.
2. Experiments in Inorganic chemistry by Gurtu and Kapoor.
3. Practical Organic chemistry by A.I. Vogel.
4. Experiments in General chemistry by C.N.R. Rao and Agrawal East West Press.
5. Experiments in Physical chemistry by R.C. Das and Behere, Tata McGraw Hill.
6. Experimental Physical chemistry by F. Daniel and others (International Student Edition).
7. Systematic Experimental Physical chemistry by S.W. Rajbhoj and Dr. T.K. Chondhekar, Anjali Publication, Aurangabad.
8. Advanced practical physical chemistry by J.B. Jadhav (Goel Publishing house, Meerut).
9. Experiments in Chemistry by D.V. Jahagirdar.
10. A Textbook of quantitative Inorganic analysis by A.I. Vogel

॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

“Dnyanteerth”, Vishnupuri, Nanded - 431606 Maharashtra State (INDIA)

Established on 17th September 1994 – Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



ACADEMIC (1-BOARD OF STUDIES) SECTION

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संलग्नित महाविद्यालयांतील विज्ञान व तंत्रज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे CBCS Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ०८ जून २०१९ रोजी संपन्न झालेल्या ४४व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.११/४४-२०१९ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील विज्ञान व तंत्रज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्यात येत आहेत.

- | | |
|---|---------------------------------------|
| 1. Agricultural Microbiology | 18. Dyes and Drugs |
| 2. Agrochemicals & Fertilizers | 19. Electronics |
| 3. Analytical Chemistry | 20. Environmental Science |
| 4. B.C.A. | 21. Fishery Science |
| 5. B.Voc. (Food Processing, Preservation and Storage) | 22. Food Science |
| 6. B.Voc. (Web Printing Technology) | 23. Geology |
| 7. Biochemistry | 24. Horticulture |
| 8. Bioinformatics | 25. Industrial Chemistry |
| 9. Biophysics | 26. Information Technology (Optional) |
| 10. Biotechnology (Vocational) | 27. Mathematics |
| 11. Biotechnonology | 28. Microbiology |
| 12. Botany | 29. Network Technology |
| 13. Chemistry | 30. Physics |
| 14. Computer Application (Optional) | 31. Software Engineering |
| 15. Computer Science (Optional) | 32. Statistics |
| 16. Computer Science | 33. Zoology |
| 17. Dairy Science | |

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड - ४३१ ६०६.

जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदवी-सीबीसीएस अभ्यासक्रम/
२०१९-२०/२९२

दिनांक : ०३.०७.२०१९.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) साहाय्यक कुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) उपकुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

स्वाक्षरित / -

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,
NANDED**

SYLLABUS

Of

B.Sc. – I Year

Choice Based Credit System (CBCS)

(Semester Pattern)

DAIRY SCIENCE

Effective from June - 2019

Distribution of credits for B.Sc. **Dairy Science** (optional)

Under Faculty of Science

B. Sc. Syllabus structure

Semester Pattern effective from June 2019

Subject: Dairy Science

Semester	Paper No.	Name of the Course	Instruction Hrs/ week	Total period	Internal Evaluatio	Marks of Semester	Total Marks	Credits
I	CCDS I (Section A)	Dairy Farming in India (PI)	03	45	10	40	50	2
	CCDS I (Section B)	Milk and Physiology of Lactation (PII)	03	45	10	40	50	2
II	CCDS II (Section A)	Processing Technology of Milk (P-III)	03	45	10	40	50	2
	CCDS II (Section B)	Farm Animal Health Management (PIV)	03	45	10	40	50	2
	CCDSP I [CCDS I & II (Section A & B)]	Practical's based on Section A & Section B of CCDS I & CCDS II (PV)	04	20 Practical	20	80	100	4

Total credits semester I and II: 12

III	CCDS III (Section A)	Dairy Animal Management (P-VI)	03	45	10	40	50	2
	CCDS III (Section B)	Technology of Indigenous Milk Products (P-VII)	03	45	10	40	50	2
	CCDSP III [CCDS III & IV (Section B)]	Practical's based on P-VI & P-VIII (P-X)	04		10	40	50	2
	CCDSP II [CCDS III & IV (Section B)]	SECI (1 Skill/ optional)			15×3 = 45	-	-	(02)*
IV	CCDS IV (Section A)	Sheep, Goat, Pig and Poultry Farming (P-VIII)	03	45	10	40	50	2
	CCDS IV (Section B)	Technology of Western Dairy Products (P-IX)	03	45	10	40	50	2
	CCDSP II [CCDS III & IV (Section A)]	Practical's based on P-VII & P-IX (P-XI)	04	20 practical	10	40	50	2
	CCDSP III [CCDS III & IV (Section B)]	SEC II (1 Skill)			15×3 = 45	-	-	(02)*
Total credits semester III and IV								12(04)*

Semester	Course No.	Name of the Course	Instruction Hrs/ week	Total period	Internal Evaluation	Marks of Semester	Total Marks	Credits
V	DECDS I (Section A)	Animal Nutrition (P-XII)	03	45	10	40	50	2
	DECDS I [(Section B) Elective]	Reproduction in Farm Animals (P-XIII)	03	45	10	40	50	2
	DECDS II) [DECDS I & II (Section B)]	Practical's based on P-XII & P-XIV (P-XVI)	04	20 Practical	10	40	50	2
	DECDS II [DECDS I & IV (Section B)]	SEC III (1 Skill/ optional)			15×3 = 45	-	-	(02)*
VI	DECDS II (Section A)	Forage Production, Feeds and Feeding (P-XIV)	03	45	10	40	50	2
	DECDS II [(Section B) Elective]	Animal Genetics and Breeding (P-XV)	03	45	10	40	50	2
	DECDS I [DECDS I & II (Section A)]	Practical's based on P - XIII & P-XV (P-XVII)	04	20 Practical	10	40	50	2
	DECDS II (Section B)	SEC IV (Project)			50	-	50	(2)*
Total credits semester V and VI								12(04)*

Swami Ramanand Teerth Marathwada University, Nanded

B.Sc. First Year DAIRY SCIENCE

Choice Based Credit System (CBCS) - Semester Pattern

Objectives :-

The course is planned to acquaint the students with

- I. Farming aspects in livestock and poultry so as to prepare themselves for future Prospectus
- II. Geographical distribution & trends in population growth
- III. Role in national economy
- IV. Their socio-economic aspects
- V. Role of NDDB, Co-Op. Society, Role of OFP.
- VI. Sanitary and hygienic conditions in Animal farm
- VII. Establishment of Dairy Farm
- VIII. Study of various diseases and disorders in livestock
- IX. Milk, its composition, properties & nutritive Values
- X. Physiology of Lactation
- XI. Milk utilization trends in India
- XII. Disposal of farm waste & Carcass, Recycling of waste.

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY
NANDED**

Choice Based Credit System (CBCS)

Semester Pattern

DAIRY SCIENCE

B.Sc. F.Y.-CCDS I and Semester -I

**Section A
Theory Paper I**

Title – Dairy Farming in India

Marks – 50/Credit 2+0	3 Periods per week	Total Periods 45
Unit – I		No. of periods
	<ul style="list-style-type: none">❖ Introduction to Dairy farming in India.❖ History of Domestication of Dairy animals.❖ Taxonomic classification of Dairy animals.❖ Animal Husbandry in India – present and future.❖ Common terminologies used in Animal husbandry.	10
Unit – II		13
	<ul style="list-style-type: none">❖ Animal husbandry regions in India.❖ Animal adaptation and behavioral patterns.❖ Cattle and Buffalo : Role in national Economy❖ Study of Dairy farming system in India❖ Role of Dairy co-operatives, NDDDB and OFP in enhancing milk production	
Unit – III		12
	<ul style="list-style-type: none">❖ Establishment of Dairy farm❖ Selection of site.❖ Different structures and their location and space requirement and housing materials.❖ Capital – Types, ways of raising.	
Unit – IV		10
	<ul style="list-style-type: none">❖ Types of housing for Dairy animals.❖ Water supply, light & ventilation, Drainage system.❖ Disposal of Carcass and Recycling of Dairy animal Wastes❖ Maintenance of sanitary and hygienic conditions on farm.	

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY
NANDED**

Choice Based Credit System (CBCS)

Semester Pattern

DAIRY SCIENCE

B.Sc. F.Y.-CCDS I and Semester -I

Section B

Theory Paper II

Title – Milk and Physiology of Lactation

Marks – 50/Credit 2+0	3 Periods per week	Total periods 45
Unit – I		No. of periods
❖ Introduction to the subject		08
❖ Production and Utilization trends of milk in India		
❖ Lactation, Lactation Period		
❖ Morphology and anatomy of Udder		
Unit – II		15
❖ Endocrine glands and Hormones in milk secretion		
❖ Theories of milk secretion		
❖ Physiology of milk secretion		
❖ Milk : Definition, Composition.		
Unit – III		12
❖ Study of major milk constituents		
❖ Water – physical state of milk		
○ Proteins in milk		
○ Lactose in milk		
○ Lipids in milk		
❖ Study of minor constituents of milk		
❖ Nutritive value of milk		
Unit – IV		10
❖ Factors affecting quality and quantity of milk		
❖ Physical and chemical properties of milk		
❖ Sources of contamination in milk		
❖ Clean milk production		
❖ Classification of Bacteria and Fermentation of Milk.		

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY
NANDED**

Choice Based Credit System (CBCS)

Semester Pattern

DAIRY SCIENCE

B.Sc. F.Y.-CCDS II and Semester -II

Section A

Theory Paper III

Title – Processing Technology of Milk

Marks – 50/Credit 2+0

3 Periods per week

Total periods -- 45

Unit – I	No. of periods
-----------------	-----------------------

- ❖ Procurement of milk : Collection and Transportation, Cooling of milk **13**
 - ❖ Milk Processing – a) Straining, Filtration, Clarification
 b) Pasteurization LTLT, HTST
 c) Homogenization
 d) Sterilization
-

UNIT – II

12

- ❖ Legal standards – HACCP, FSSAI, Judging & Grading of milk.
 - ❖ Pricing policy
 - ❖ Standardizing and toning of milk.
 - ❖ Storage and milk packaging
 - ❖ Distribution of milk
-

UNIT- III

10

- ❖ Layout of milk processing plant
 - ❖ Flooring, Ventilation, Doors, Windows
 - ❖ Drainage system, washing unit
 - ❖ Rodent control
 - ❖ Maintenance of hygiene
-

UNIT – IV

10

- ❖ Milk and Metals used in Dairy Industry.
 - ❖ Steam: Forms, Generation & Uses.
 - ❖ Refrigeration
 - ❖ Dairy effluent treatment and Disposal
-

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY
NANDED**

Choice Based Credit System (CBCS)

Semester Pattern

DAIRY SCIENCE

B.Sc. F.Y.-CCDS II and Semester -II

Section B

Theory Paper IV

Title – Farm Animal Health Management

Marks – 50/Credit 2+0	3 Periods per week	Total periods 45
Unit – I		No. of periods 10
❖	Identification of sick animals.	
❖	Study of healthy conditions in farm animals.	
❖	Classification of Diseases	
❖	Common terminologies used in animal treatment ; like ointment, purgatives & laxatives, tonics, lotions, emulsion, astringent, liniments, enema, disinfectants.	
❖	Immunology : Definition, concept, types.	
Unit-II		14
❖	Study of diseases of economic importance (With reference to causative organism, pathogenesis, etiology, symptoms, prevention, treatment and measures) FMD, RP, HS, BQ, Anthrax, Brucellosis.	
❖	Dystokia, prolapsed of uterus and vagina	
❖	Diseases of Lactating cows : Mastitis, Milk fever, Ketosis.	
Unit-III		10
❖	Diseases of calf : Pneumonia, calf scours, diarrhea, Joint ill, Naval ill, Worm infestation, Rickets	
❖	Parasitic and protozoan diseases: Theilariasis, Babesiosis, Trypanosomiasis , Trichomoniasis.	
❖	Control of Ecto and Endo parasites of animals.	
Unit-IV		10
❖	Diseases of sheep and Goat : PPR, blue tongue.	
❖	Diseases of pigs : swine fever / Hog cholera	
❖	Diseases of poultry : Ranikhet, Coccidiosis, Marek's, Gumboro.	

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY
NANDED**

Choice Based Credit System (CBCS)

Semester Pattern_

DAIRY SCIENCE

B.Sc. F.Y.-CCDSP-I and Annual Pattern

Practical Paper V

**Practicals based on CCDS – I (Section A &
B) And CCDS – II (Section A & B)**

Marks – 100/Credit 0+4

4 Periods per week

- 1) Morphology of cattle and buffalos
- 2) Linear Body measurements – Body wedges and estimations of body weight.
- 3) Study of Udder
- 4) Recording Temperature, pulse rate, respiration, Heart rate and Auscultation
- 5) Drenching, Injections and Vaccinations.
- 6) Pathological tests – Blood tests, Urine tests, Test for mastitis.
- 7) Preparation of drugs like, ointment/liniment/bolus
- 8) Sampling of Milk
- 9) Organoleptic evaluation of milk / platform tests.
- 10) Determination of Specific gravity.
- 11) Determination of Acidity and pH.
- 12) Determination of Viscosity.
- 13) Determination Electrical conductivity and Refractive Index
- 14) Determination of Fat.
- 15) Determination of SNF, TS.
- 16) Record keeping.
- 17) Farm layout.
- 18) Visit to – Dairy farm, Dairy plant,
Agricultural and Veterinary College,
Veterinary Hospital.

List of Equipments, Glass ware's materials for Practical's

Models/ Charts / Photographs of cattle and buffalo.

Various types of sanitizers, disinfectants

Thermometer, Stethoscope

Digital balance

Equipments and materials for preparation of various drugs

Glucometer, aemoglobinometer, glass wares and equipments for various

pathological tests.

Housing models

Injection-vaccination equipments

Model of Udder,

figures showing internal and external structure

Platform test equipment

Centrifugal fat testing machine,

milk – o – tester, Milk analyzer

pH meter, pH paper

Oven, Viscometer

Electrical conductivity meter

Laboratory glass wares and required chemicals Richmand's scale for TS

Refractometer

-: List of Reference Books :-

1. A text Book of Animal Husbandry - G.C. Banerjee
2. Advances in Dairy animal Productions - Mudgal
3. Animal Husbandry and Rural Development - Kar
4. Dairy cattle and Milk production - Eckles
5. Disease of Animal Transmissible to man - Thplyal
6. Fundamentals of Animal Hygiene and Epidemiology - Thyplyal
7. Handbook Animal Diseases - Bhattacharjee
8. Instant veterinary Drug Index – Dabax
9. Poultry Diseases of Farmers – Vegad and Suresh
10. Handbook of Veterinary Physicians – Sapre
11. Handbook of Animal Husbandry – ICAR
12. Livestock and Poultry Production – Singh & Moore
13. Animal Husbandry and Dairy Science – Jagdish Prasad
14. Dairy Bovine Production – C.K. Thoms & NSR Sastry
15. Treaties and Treatment Vol I & II – Srinivasn
16. Livestock Health and Housing – David and Peter
17. Dairy Cattle Science – Ensmiger
18. Veterinary Medicine – Blood and Handerson
19. Principles and Practices in Dairyfarm Management – Jagdish Prasad
20. A Student Laboratory manual of veterinary physiology – Sharma
21. A Handbook of Veterinary Physician – V.A. Sapre
- A text book of Animal Science – A.U. Bhikane, & S.B. Kawitkar
22. Multiple Choice Questions in Animal Husbandry – K.G. Dande & Gaikwad S. M.
23. Management of Animals – Satish Kulkarni
24. Outlines of Dairy Technology - S. K. De
25. Milk and Milk Products - Eckless, Combs and Macacy
26. Milk and Milk Products Technology - Mohammad Raziuddin and Ashok Hembade.
27. Dairy Chemistry - M.M. Rai
28. Principals of Dairy Chemistry - Jeneess & Patton
29. A Text book of Dairy Chemistry - N.C. Ganguly
30. Fundamentals of Dairy Chemistry - Web & Jonson
31. Dairy Chemistry - Fox

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| 32. Dairy Processing | - James Warner |
| 33. Hand book of Dairy Science | - K.C. Mahanta |
| 34. Dictionary of Dairying | - Davis & |
| Leonard Hill Engineering for Food and Dairy Processing | - E.M. Farrell |
| 35. Dairy Plant-Management and Engineering | - Tufail Ahemad |
| 36. Text book of Practical Dairy Chemistry | - N.K. Roy & D.C. Sen |
| 37. Milk Testing | - J.G. Davis |
| 38. Dairy Microbiology | - K.C. Mahanta |
| 39. Dairy Bacteriology | - Hammer |
| 40. Fundamentals of Dairy Microbiology | - J.B. Prajapati |
| 41. Standard Methods for Examination of Dairy Products | - Gary H. Richardson |
| 42. Market Milk Industry | - C.I. Rhodhouse & J.L. Henderson |
| 43. Comprehensive Dairy Microbiology | - Yadav, Batish and Grover |
| 44. A Text Book of Animal Husbandry | - G.C. Banerjee |
| 45. The Fluid Milk Industry-Henderson | - ISI Specifications - BIS Publication |
| 46. Technology of Dairy plant operations | - K.P.S. Sangwan |
| 47. Technology of milk processing | - C.P. Anantkrishnan,
A.Khan And P.N. Padmanabhan |
| 48. Milk and Its properties | - S.M. Srivastava |
| 49. Chemical & Microbiological Analysis of
Milk & Milk projects | - Ramakant Sharma |

Dr. A.S. Hembade

Chairman

(Board of Studies in Dairy Science)

B.Sc. F.Y. CBCS Annual Patter
Practical Question Paper Proforma
CCDSP – I

Marks 100

Q.1 Spotting – (10 spots) Dairy equipments / Glasswares / specimen/model	20
Q.2 Linear body measurements and estimation of body weight/ Study of Udder	10
Q.3 Taking Body Temperature, Pulse rate, respiration rate, Heart rate/ Pathological tests/Sensory evaluation of milk	10
Q.4. Determination of specific gravity /acidity and PH/electrical conductivity and Refractive Index.	15
Q.5. Determination of milk fat/TS & SNF/Viscosity	15
Q.6. Preparation of Ointment/Liniment/Vaccination schedule/ Submission of farm layout.	10

Internal /CA : Record Book & Viva-voce	10
Excursion Report / Visit Report.	10

॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

“Dnyanteerth”, Vishnupuri, Nanded - 431606 Maharashtra State (INDIA)

Established on 17th September 1994 – Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



ACADEMIC (1-BOARD OF STUDIES) SECTION

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संलग्नित महाविद्यालयांतील विज्ञान व तंत्रज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे CBCS Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ०८ जून २०१९ रोजी संपन्न झालेल्या ४४व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.११/४४-२०१९ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील विज्ञान व तंत्रज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्यात येत आहेत.

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|---|---------------------------------------|
| 1. Agricultural Microbiology | 18. Dyes and Drugs |
| 2. Agrochemicals & Fertilizers | 19. Electronics |
| 3. Analytical Chemistry | 20. Environmental Science |
| 4. B.C.A. | 21. Fishery Science |
| 5. B.Voc. (Food Processing, Preservation and Storage) | 22. Food Science |
| 6. B.Voc. (Web Printing Technology) | 23. Geology |
| 7. Biochemistry | 24. Horticulture |
| 8. Bioinformatics | 25. Industrial Chemistry |
| 9. Biophysics | 26. Information Technology (Optional) |
| 10. Biotechnology (Vocational) | 27. Mathematics |
| 11. Biotechnonology | 28. Microbiology |
| 12. Botany | 29. Network Technology |
| 13. Chemistry | 30. Physics |
| 14. Computer Application (Optional) | 31. Software Engineering |
| 15. Computer Science (Optional) | 32. Statistics |
| 16. Computer Science | 33. Zoology |
| 17. Dairy Science | |

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड - ४३१ ६०६.

जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदवी-सीबीसीएस अभ्यासक्रम/
२०१९-२०/२९२

दिनांक : ०३.०७.२०१९.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) साहाय्यक कुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) उपकुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

स्वाक्षरित / -

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग

B. Sc. FY Syllabus structure
CBCS Pattern effective from June 2019
Subject: Electronics

Preamble:

Electronic Science is a base for core technologies of 21st century and can be a route to many different carrier paths. The boundaries of Electronic Science extends from basic physics, chemistry, mathematics, statistics, computer science, to applied subjects like industrial automation, telecommunications and biotechnology etc. In true sense it is a multidisciplinary subject. Quality assurance in higher education is chief motif of Accreditation. In achieving recognition, the institution or program of study is committed and open to external review to meet certain minimum specified standards. The major emphasis of this accreditation process is to measure the outcomes of the program that is being accredited. Program outcomes are essentially a range of skills and knowledge that a student will have at the time of graduation from the program.

The B.Sc. first year Electronics course is designed such that any HSC (XII th Science) passed student can choose Electronics as one of the optional subject for B.Sc. course. The First Year course is oriented to introduce learners to fundamental concepts of electronics, basic components, semiconductor devices, digital electronics, working and uses of some indispensable laboratory instruments.

B.Sc. FY Course Structure

Semester	Paper No.	Name of the Course	Periods/ Week	Total Periods	Internal Evaluation (CA)	University Evaluation (UA)ESE	Total Marks	Credits
I	CCEI-A	Basic Electronics and Network Analysis (P-I)	03	45	10	40	50	2
	CCEI-B	Basic Digital Electronics (P-II)	03	45	10	40	50	2
II	CCEII-A	Semiconductor Devices and Electronic Instruments (P-III)	03	45	10	40	50	2
	CCEII-B	Digital Logic Circuits (P-IV)	03	45	10	40	50	2
	CCEPI	Practicals based on CCEI(A&B) & CCEII(A&B)	03	90	20	80	100	4

Total Credits of Semester I and II = 12

CCEI-A (Paper-I): Basic Electronics and Network Analysis
Periods :45 **Max. Marks : 50** **Credits : 2**

Course Pre- requisite: HSC (XII th Science) pass

Course Objectives:

1. To introduce to basic electronic components and their properties.
2. To understand various network theorems.
3. To introduce to AC fundamentals.

Course Outcome : After completion of this course students will be -

1. able to identify variety of electronic components viz. resistors, inductors capacitors and their types & uses.
2. able to understand I-V characteristics of basic electronic components.
3. able to apply network theorems to simplify given network.
4. able to distinguish between DC/AC sources, relate various characteristics of sinusoidal voltage and understand use of resonant circuits.

Unit I: Basic Circuit Analysis **(10 periods)**

Ohm's law, KCL, KVL, sign conventions for IR drops and EMFs, series circuits:- proportional voltage formula, voltage divider, open and short in series circuit, parallel circuits:- proportional current formula, open and short in parallel circuit. Book - 1

Unit II: Network Theorems **(10 periods)**

Ideal constant-voltage source, ideal constant-current source, super position theorem, Thevenin theorem, Norton theorem, maximum power transfer theorem. Book – 2

Unit III: Phasor Algebra **(10 periods)**

Symbolic notation, significance of operator j, conjugate complex number, various forms of vector representations, arithmetic operations of vectors, powers and roots of vector quantity. Book-2

Unit IV: AC Fundamentals **(15 periods)**

Types of ac waveforms, cycle, time period, frequency, amplitude of ac voltage/current, characteristics of sine wave, different values of sinusoidal voltage/current, phase of ac, phase difference, vector representation of an ac quantity, R-L circuit, R-C circuit, series R-L-C circuit, resonance in series R-L-C circuit, resonance curve, bandwidth and Q-factor of series resonant circuit, parallel resonance, resonance curve, Q-factor, band width of parallel resonant circuit. (Book- 1)

Transformer and its working. (Book-2)

Text Books:

1. Basic Electronics Solid State(Multicolor illustrative edition), by B. L. Theraja, S. Chand & Company Ltd, New Delhi
2. A Textbook of Electrical Technology, by B.L. Theraja, Vol.1, Nirja Construction & Development Company.

Recommended Books/References:

1. A Text book of Applied Electronics by R. S. Sedha, New reprint of Revised Edition 2013, S. Chand & Company Ltd, New Delhi
2. Principles of Electronics (Multicolour revised edition), by V.K. Mehta, Rohit Mehta, S. Chand & Company, Ram Nagar, New Delhi.
3. Basic Electronics (eighth edition), by Bernard Grob, Pub.: Glencoe Mc Graw Hill, Pub. Company.
4. Android based App – ‘Electronics’ and similar
5. <https://www.falstad.com/circuit/e-index.html> (for circuit simulator applets)

Text Books:

1. Digital Principles & Applications by A.P. Malvino & D.P. Leach (TMH, New Delhi)
2. Modern Digital Electronics by R.P. Jain, Tata McGraw Hill Publication.
3. Digital Fundamentals by Floyd, Pearson Education.

Recommended Books/References:

1. Digital Electronics: W. H. Gothman Prentice Hall , India.
2. Fundamentals of Digital Circuits by A. Anand Kumar, 3rd Edn, PHI Learning Pvt. Ltd. Delhi.
3. Digital Electronics with practical approach –G N Shinde, Shivani Pub. Nanded.
4. <https://www.falstad.com/circuit/e-index.html> (for circuit simulator applets).

CCEII-A (Paper-III): Semiconductor Devices and Electronic Instruments
Periods :45 **Max. Marks : 50** **Credits : 2**

Course Pre-requisite: (Paper-I): Basic Electronics and Network Analysis

Course Objectives:

1. To understand types of semiconductors, their properties & operations
2. To understand characteristics of transistors.
3. To introduce to DC power supply & its components.
4. To study working principles of multi-meter & CRO.

Course Outcome : After completion of this course students will be -

1. able to understand I-V characteristics of various semiconductor diodes.
2. able to understand input/output characteristics of transistor.
3. able to distinguish between unregulated & regulated power supply and its significance.
4. able to demonstrate the use of multi-meter & CRO.

Unit – I : Semiconductor Diodes: (10 periods)

Construction, working and V-I characteristics of P-N Junction diode, effect of temperature on barrier potential, Zener diode, LED, photodiode, varactor diode. Book-1

Unit – II : Transistors : (15 periods)

Construction of NPN and PNP transistor, F-F, R-R-, F-R biasing, α_{dc} and β_{dc} of a transistor and their relationship, C-E transistor characteristics: collector curves and base curves. Construction, working and characteristics of UJT, JFET, MOSFET. Book-2

Unit – III : Rectifiers and Voltage Regulators (10 periods)

Block diagram of a power supply, half and full wave rectifiers, bridge rectifier, shunt capacitor filter, load regulation, and line regulation, zener shunt regulator. Book-1

Unit – IV: CRO and Multimeter: (10 periods)

Multimeter, applications of multimeter, sensitivity of galvanometer, conversion of galvanometer into voltmeter and into ammeter. Cathode ray oscilloscope, cathode ray tube, deflection sensitivity of CRT, applying signal across vertical plates, display signal waveforms on CRO, signal pattern on screen, various controls of CRO, applications of CRO (Book-1)

Text Books:

1. Principles of electronics by V.K. Mehta & Rohit Mehta (Multicolour revised edition) S. Chand & Company.
2. Electronic principles, A.P. Malvino, Tata Mc. Graw Hill, Pub. Co.Ltd., (Third edition).

Recommended Books/References:

1. Basic electronics (solid state) by B.L. Theraja, (multicolour illustrative edition), , S.Chand & Company Ltd., Ram Nagar, New Delhi.
2. Basic electronics by Bernard Grob, Glencoe ,(8th Edn) Mc. Graw Hill Pub.,Company.
3. Android based App – ‘Electronics’ and similar
4. <https://www.falstad.com/circuit/e-index.html> (for circuit simulator applets)

CCEII-B (Paper-IV): Digital Logic Circuits
Periods :45 **Max. Marks : 50** **Credits : 2**

Course Pre-requisite: (Paper-II): Basic Digital Electronics

Course Objectives:

1. To introduce to data processing logic circuits.
2. To introduce to various Flip-Flops and their uses in sequential logic circuits.
3. To understand working of counters, registers, ADC and DAC

Course Outcome : After completion of this course students will be -

1. able to distinguish between JK Flipflop & JKMS Flipflop; between T Flipflop & D Flipflop.
2. acquire the skill of using FFs for given application such as register, counter etc.
3. able to present the use of MUX, DMUX.
4. able to understand the uses of ADC & DAC.

Unit I: Data Processing Circuits **(10 periods)**

Introduction to multiplexers, designing of 2:1 MUX, 4:1 MUX, and 8:1 MUX, introduction to demultiplexers, designing of 2:1 DMUX, 4:1 DMUX, and 8:1 DMUX, Encoders: decimal to BCD encoder, priority encoder, Decoders: BCD to decimal decoder, BCD to seven segment decoder.

Unit – II Flip- Flops **(10 periods)**

1-bit memory cell, S-R flip-flop, clocked S-R flip-flop, preset and clear facility in flip–flop, J–K flip-flop, race around condition, master-slave JK Flip Flop, D-type and T-type flip flop.

Unit – III Sequential logic circuit **(15periods)**

Concept of counters, types of counters, modulo of counter, 2-bit, 3-bit and 4-bit asynchronous counters, 2-bit, 3-bit and 4-bit synchronous counters, mod-5counter, decade counter using IC 7490, ring counter, shift registers: SISO, SIPO, PISO, PIPO.

Unit – IV Data Converters **10**

D to A converters: R-2R Ladder DAC, characteristics of DAC, resolution, linearity, accuracy, settling time. A to D converters: parallel comparator ADC, successive approximation ADC, Characteristics of ADC: resolution, conversion time, quantization error.

Text Books:

1. Digital Principles & Applications by A.P. Malvino& D.P. Leach (TMH, New Delhi)
2. Modern Digital Electronics by R.P. Jain, Tata McGraw Hill Publication.
3. Digital Fundamentals by Floyd, Pearson Education.
4. 8-bit Microprocessor by V J Vibhute, P B Borole, U S shah. Tech Max Publication ,Pune.

Recommended Books/References:

1. Digital Electronics: W. H. Gothman Prentice Hall , India.
2. Fundamentals of Digital Circuits by A. Anand Kumar, 3rd Edn, PHI Learning Pvt. Ltd. Delhi.
3. Digital Electronics with practical approach –G N Shinde, Shivani Pub. Nanded.
4. <https://www.falstad.com/circuit/e-index.html> (for circuit simulator applets).

Paper – V
(Practicals based on Paper-I, II, III and IV)
ELEC V: Laboratory Course Work
(CBCS PATTERN)
(Marks: 100)

Periods: 80

Credits: 4

Note:

- i. Every student must perform at least 12 experiments, not less than SIX Experiments from each group.
- ii. Use graphs wherever necessary.

Group I :

1. Identification of electronic components: Resistors, Capacitors, Inductors, transformers, diodes & transistors.
2. Study of electronic instruments: Voltmeter, Ammeter and Multimeter.
3. Study of Electronic instruments: Power supply, signal generator and CRO.
4. Determination of value of given resistors by using colour code method & verification of it by multimeter.
5. Determination of amplitude, frequency and time period of observed voltage waveform by using CRO.
6. Verification of Thevenin's theorem.
7. Study of Maximum power transfer theorem and determination of internal resistance of a source.
8. Study of P-N junction diode characteristics and determination of bulk resistance.
9. LED characteristics.
10. Photo diode characteristics.
11. Study of Zener diode characteristics and determination of breakdown voltage.
12. Study of Common-Emitter transistor characteristics and determination of β_{dc} .
13. JFET characteristics.
14. Study of Series resonance circuit and determination of its bandwidth and Q-factor.
15. Study of Half wave rectifier and determination of ripple factor and efficiency (η)
16. Study of Full wave rectifier and determination of ripple factor and efficiency (η)
17. Study of Zener shunt regulator, line and load regulation characteristics.

Group II :

1. Study of basic gates (verification of truth table) using ICs.
2. Construction of basic gates using NAND gates.
3. Construction and study of half adder using NAND gates.
4. Construction and study of full adder using NAND gates.
5. Implementation of Boolean expression from the given 4-variable truth table using K-map.
6. Verification of De Morgan's theorems.
7. Construction and study of JK, T-type and D-type flip-flops using IC 7476.
8. Study of decade counter using IC 7490.
9. Construction and study of Serial in – Serial out shift register using IC 7495.
10. Mod-16 asynchronous counter using IC 7493.
11. 4-bit Binary to Gray converter using IC 7486.
12. 4-bit Gray to Binary converter using IC 7486.

॥ सा विद्या या विमुक्तये ॥



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“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)

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संलग्नित महाविद्यालयांतील विज्ञान व तंत्रज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे CBCS Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ०८ जून २०१९ रोजी संपन्न झालेल्या ४४व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.११/४४-२०१९ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील विज्ञान व तंत्रज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्यात येत आहेत.

- | | |
|---|---------------------------------------|
| 1. Agricultural Microbiology | 18. Dyes and Drugs |
| 2. Agrochemicals & Fertilizers | 19. Electronics |
| 3. Analytical Chemistry | 20. Environmental Science |
| 4. B.C.A. | 21. Fishery Science |
| 5. B.Voc. (Food Processing, Preservation and Storage) | 22. Food Science |
| 6. B.Voc. (Web Printing Technology) | 23. Geology |
| 7. Biochemistry | 24. Horticulture |
| 8. Bioinformatics | 25. Industrial Chemistry |
| 9. Biophysics | 26. Information Technology (Optional) |
| 10. Biotechnology (Vocational) | 27. Mathematics |
| 11. Biotechnonology | 28. Microbiology |
| 12. Botany | 29. Network Technology |
| 13. Chemistry | 30. Physics |
| 14. Computer Application (Optional) | 31. Software Engineering |
| 15. Computer Science (Optional) | 32. Statistics |
| 16. Computer Science | 33. Zoology |
| 17. Dairy Science | |

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड - ४३१ ६०६.

जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदवी-सीबीसीएस अभ्यासक्रम/
२०१९-२०/२९२

दिनांक : ०३.०७.२०१९.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) साहाय्यक कुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) उपकुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

स्वाक्षरित / -

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड.

CHOICE BASED CREDIT SYSTEM (CBCS) SEMESTER PATTERN FACULTY OF SCIENCE B.A./B.Sc. (Mathematics)

CURRICULUM

Note:

1. Assessment shall consist of Continuous assessment (CA) and End of Semester Examination (ESE).
2. Weightage: 80% for ESE & 20% for CA.
3. First/Second Semester consists of Two Theory Papers each of 50 marks [40ESE + 10 CA] and One Lab Course 100 marks.
4. Workload includes Unit tests.

B.A./B.Sc. (Mathematics) Semester I and II
Curriculum will be progressively effective from June-2019 Onwards.

Semester	Section and Paper Code	Period per week	Paper No. and Title of the papers	Marks of Semester	Internal C.A.	Total Marks	Credits
I	CCM-1 Section A	4	Paper -I Calculus-I	40	10	50	2
	CCM-1 Section B	4	Paper-II Algebra and Trigonometry	40	10	50	2
II	CCM-2 Section A	4	Paper -III Calculus-II	40	10	50	2
	CCM-2 Section B	4	Paper-IV Geometry	40	10	50	2
Lab Course work (Annual Pattern Practical)	CCMP-1 Based on CCM1 and CCM2	2	Paper-V Practical On MAT-LAB only for B.Sc. Students	80	20	100	4
Total Credit							12

B.A. / B.Sc.F.Y. Semester-I
(CBCS PATTERN)
CCM-1, Section-A
Paper I: Calculus-I (Differential Calculus)

Course Description: This course provides an elementary knowledge of Limit, Continuity, Differentiation, higher order Derivatives, Expansion of functions, Equation of Tangent and Normal, Mean Value Theorem, Partial Differentiation.

Objectives: A primary objective of the course is to learn elementary knowledge of Differential Calculus

Outcomes: After successful completion of the course student will be able to

1. Understanding concept of Limit, Continuity of Single and two variable Functions.
2. Find the Higher order derivatives of Product of Functions
3. Expand functions in terms of infinite series.
4. Find Equation of Tangent, Normal and Length of Tangent, Normal, Sub-tangent, Sub-normal.
5. Understanding of Mean Value Theorem concepts.
6. Understand the concept of Partial differentiation.
7. Use the results to solve problems.
8. Differentiate difference between derivative of single variable and two variables.

Unit-I: Differentiation

Derivability and derivative, derived function, derivability implying continuity, geometrical interpretation of a derivative, derivatives of hyperbolic functions, derivatives of inverse hyperbolic functions, Higher order derivatives, calculation of the nth derivative, determination of nth derivative of rational functions, nth derivatives of the products of the powers of sines and cosines, Leibnitz theorem.

Unit-II: Expansion of functions, Tangents and Normals

Maclaurin's theorem, Taylor's theorem, Equations of the tangent and normal, Angle of intersection of two curves, length of the tangent, normal, sub-tangent, sub-normal, pedal equations.

Unit-III: Mean Value Theorems

Rolle's Theorem, Lagrange's mean value theorem, Meaning of sign of derivative, Graphs of hyperbolic functions, Cauchy's mean value theorem, Generalized mean value theorems (Taylor's theorem, Maclaurin's theorem).

Unit-IV: Partial Differentiations

Introduction, Functions of two variables, Neighborhood of a point (a,b), Limit and Continuity, Partial derivatives, Geometrical Interpretation, Homogeneous functions, Euler's Theorem on homogeneous function and corollary, Theorems on total differentials, Equality of $f_{xy}(a, b)$ and $f_{yx}(a, b)$, Equality of f_{xy} and f_{yx} , Taylors theorem for functions of two variables (Only Statement).

Text Book 1:

Differential Calculus by Shanti Narayan and Dr. P. K. Mittal, S. Chand and Co. Ltd. Revised Edition 2012 (Reprint 2013).

Scope:

Unit I: Chapter 4: 4.1, 4.1.1 to 4.1.5, 4.7, 4.7.1, 4.7.2, Chapter 5: 5.1 to 5.5.

Unit-II: Chapter 6: 6.1, 6.2, Chapter 7: 7.1, 7.2, 7.2.1, 7.2.2, 7.3 to 7.5.

Unit-III: Chapter 8: 8.1 to 8.3, 8.3.1 to 8.3.3, 8.4 to 8.6, 8.6.1.

Unit-IV: Chapter 11: 11.1 to 11.5, 11.6, 11.7, 11.7.1, 11.8, 11.8.1, 11.9, 11.9.1, 11.10, 11.10.1, 11.11,11.11.1.

REFERENCES :

1. Differential Calculus by Shanti Narayan, S. Chand and Co. Ltd.
2. Text book on Differential Calculus by Gorakh Prasad, Pothishala Private limited Allahabad
3. Calculus , Schaum's outline series by Ayres F.Mc Graw Hill,1981
4. Differential calculus by Edwards J., Mac Millan and Co. Ltd
5. Introduction to Calculus by Green Span D. , Harper and Row.
6. Lectures on Calculus and Differential Equations by T M Karade and M S Bendre, Sonu Nilu Bandu, Nagpur.
7. Theory and Problems on Advance Calculus by Murray and R.. Spiegel ,Schaum Pub. Co. New York
8. Advanced Calculus by G.P. Shrivastav, Hari Kishan, Nagendra Kumar, Ram Prasad and sons pub.

B.A/B.Sc.F.Y. Semester-I
(CBCS PATTERN)
CCM-1,(Section B)
Paper II: Algebra and Trigonometry

Course Description: This course provides an elementary knowledge of Matrix, Types of Matrices, Adjoint of a Square Matrix, Rank of a Matrix, Linear Equations, Characteristic Roots and Characteristic Vectors, Trigonometry, and Complex Quantities.

Objectives: A primary objective of the course is to learn elementary knowledge of Matrices, Complex Numbers, and Trigonometry.

Outcomes: After successful completion of the course student will be able to

1. Add, Subtract and Multiply two Matrices.
2. Recognize the different types of Matrices.
3. Find the Inverse of invertible Matrices.
4. Determine the Rank of a Matrix.
5. Transform matrix to Row Echelon form
6. Solve the System of Linear Equations.
7. Find the Characteristic Roots and Characteristic Vectors of a Square Matrix.
8. Check that every square matrix satisfies its own Characteristic Polynomial.

Unit-I: Matrices

Matrix, Different Types of Matrices, Equality of Matrices, Addition (Sum) of Two Matrices, Properties of Matrix Addition, Subtraction of Two Matrices, Multiplication of a Matrix by a Scalar, Properties of Multiplication of a Matrix by a Scalar, Multiplication of Two Matrices, Properties of Matrix Multiplication, Positive Integral Powers of a Matrix, Transpose of a Matrix, Conjugate of a Matrix, Transposed Conjugate of a Matrix, Determinant of a Square Matrix, Minor of an Element, Co-factor of an Element, Adjoint of a Square Matrix, Inverse of a Square Matrix, Singular and Non-singular Matrix, Orthogonal Matrices, The Determinant of an Orthogonal Matrix, Unitary Matrix.

Unit-II: Rank of a Matrix

Minor of Order k of a Matrix, Rank of a Matrix, Elementary Row and Column Operations, Elementary Operations, The Inverse of an Elementary Operation, Row and Column Equivalent, Equivalent Matrices, Working Procedure for Finding Rank Using Elementary Operations, Row- Echelon Matrix, Row Rank and Column Rank of a Matrix.

Unit-III: Linear Equations

Linear Equations, Equivalent Systems, System of Homogeneous Equations. Characteristic Roots and Characteristic Vectors : Definitions, To Find Characteristic Vectors, Cayley-Hamilton Theorem (Statement Only)

Unit-IV: Trigonometry

Complex Quantities, DeMoivre's Theorem, Expansions of $\sin n\theta$ and $\cos n\theta$, Expansions of the sine and cosine of an Angle in Series of Ascending Powers of the Angle, Expansions of the sines and cosines of Multiple Angles, and of Powers of sines and cosines, Exponential Series for Complex Quantities, Circular Functions for Complex Angles, Hyperbolic Functions, Inverse Circular Functions, Inverse Hyperbolic Functions.

Text Book 1:

Topics in Algebra by Om P. Chug, Kulbhushan Prakash, A.D.Gupta, Anmol Publications Pvt. Ltd., New Delhi (First Edition 1997)

Scope:

Unit I: Chapter 10: 10.1 to 10.17 (10.13, 10.15, 10.17 Only Statements), 10.20 to 10.22, 10.27 to 10.32, 10.34 to 39 (10.39 Only Statements)

Unit II : Chapter 11 : Art 11.1, 11.2, 11.5 to 11.16.

Unit-III: Chapter-11: 11.32 to 11.39, Chapter 12 : Art 12.1 to 12.3, 12.18 (Only Statement)

Text Book 2: Plane Trigonometry Part II by S.L.Loney, A.I.T.B.S. Publishers and Distributors, Delhi (Reprint 2003)

Unit-IV: Art. 17, 18 19, 21, 22, 27, 32, 33, 42, 43, 44, 45, 46, 47, 56, 57, 58, 59, 60, 61, 62, 63, 67, 68, 69, 71, 73, 74, 76, 77, 79.

REFERENCE BOOKS :

1. A Text Book of Matrices by Shanti Narayan (S.Chand and Company Ltd., New Delhi).
2. Matrices by A.R.Vasishtha Krishna Prakashan Media (P) Ltd., Meerut.
3. First Course in Linear Algebra by P.B.Bhattacharya, S.K.Jain, S.R.Nagpaul (New Age International (P) Limited Publishers).
4. Elementary Topics in Algebra by K. Khurana and S.B. Malik, Vikas Publishing House Pvt. Ltd., New Delhi.
5. Higher Trigonometry by B. C. Das and B. N. Mukherjee, U.N.Dhur and Sons Private Ltd. Kolkata.
6. Arihant Trigonometry by Amit M. Agrawal (Arihant Publication Pvt. Ltd).
7. Lectures on Algebra and Trigonometry by T M Karade and M S Bendre, Sonu Nilu Bandu ,Nagpur.
8. Text Book on Trigonometry by R S Verma and K. S. Shukla, Pothishala Private limited pub.
9. Text Book on Algebra and Theory Of Equations by Chandrika Prasad, Pothishala Private limited pub.

B.Sc.F.Y. Semester-II
(CBCS PATTERN)
CCM-2, Section-A
Paper III: Calculus-II (Integral Calculus)

Course Description: This course provides the methods of finding integration, concept of integral and Its applications to find Area and Volume.

Objectives: The main objective of the course is to study methods of finding Integration of Algebraic Rational Functions, Irrational Algebraic Functions, Transcendental Functions, Study Gamma and Beta Functions, Multiple Integral and Applications of integration to find Area and Volume.

Outcomes: After successful completion of the course student will be able to

1. Apply method of integration to find the integral of function.
2. Solve examples of definite integrals using Properties definite integrals.
3. Find the area and volume of given shape.
4. Understanding concept of Gamma and Beta Functions.
5. Solve problems on Multiple Integrals.

Unit-I: Integration of Algebraic Rational Functions

Methods of Integration, Partial Fractions, Non-repeated linear factors only in the denominator, Linear or quadratic non-repeated linear factor, Integration of $\frac{(Lx+M)}{(Ax^2+2Bx+C)^n}$ where n is a positive integer different from 1, Reduction formula for $\int \frac{1}{(y^2+k^2)^n} dx$, Integration of algebraic rational functions by substitution.

Unit-II: Integration of Irrational Algebraic Functions

Integration of $\frac{1}{\sqrt{(ax^2+bx+c)}}$, Integration of $\sqrt{(ax^2+bx+c)}$, Integration of $(px+q)/\sqrt{(ax^2+bx+c)}$, Integration of $(c_0x^n+c_1x^{n-1}+\dots+c_n)\sqrt{ax^2+bx+c}$, Integration of $1/(Ax+B)\sqrt{(Cx+D)}$, Integration of $1/(ax^2+bx+c)\sqrt{px+q}$, Integration by Rationalisation, Integration of $x^m(a+bx^n)^p$, where m, n and p are not necessarily integers, Reduction formulae for $\int x^m(a+bx^n)^p dx$.

Unit-III: Integration of Transcendental Functions

Reduction formula for $\int \sin^m x dx$ and $\int \cos^n x dx$, where m and n are positive integers, Reduction formula for $\int \sin^m x \cos^n x dx$, Integration of $\sin^m x \cos^n x$, Reduction formula for $\int \tan^n x dx$ and $\int \cot^n x dx$, Reduction formula for $\int \sec^n x dx$ and $\int \operatorname{cosec}^n x dx$, Reduction formula for $\int e^{ax} \sin^m bx dx$ and $\int e^{ax} \cos^n bx dx$, Definite Integrals: Definitions, Properties of Definite Integrals, Definite Integral as the Limit of a Sum.

Unit-IV: Beta, Gamma Functions and Multiple Integrals

Gamma Function, A Fundamental Property of Gamma Function, Product of two Integrals, Value of $\Gamma(\frac{1}{2})$, Beta Function, Relation between beta and gamma function, Integration of $\sin^{2m-1} \theta \cos^{2n-1} \theta$, Double integrals, limit of integration for $\iint f(x, y) dx dy$, Area by

double integration, Volume under a surface, Polar coordinates (Evaluation of double integral statement only), Change from cartesian to Polar Coordinates.

Text Book 1:

Integral Calculus by Shanti Narayan, S.Chand Company Ltd. Edition-1994 (Reprint-1997).

Scope:

Unit I: Chapter 2: 2.1, 2.2, 2.8, Chapter 3: 3.1 to 3.4, 3.4.1, 3.5, 3.5.1, 3.6

Text Book 2:

A textbook of Integral Calculus by U.P. Singh, R.J. Shrivstava and N.H. Siddiqui, Wisdom Press, Edition -2011.

Scope:

Unit-II: Chapter 2: 12.1 to 12.6, 12.9, 12.11, 12.12

Unit-III: Chapter 3: 13.1 to 13.5, 13.11, Chapter 4: 14.1, 14.2, 14.3, 14.4

Unit-IV: Chapter 5: 15.1 to 15.7, Chapter 6: 16.1 to 16.3, 16.5 to 16.8

REFERENCES :

1. Mathematical Analysis by S.C.Malik and Savita Arora (Second revised edition).
2. Integral Calculus by Gorakh Prasad, Pothishala Private Limited, 2, Lajpat Road, Allahabad-211002
3. Integral calculus by Shanti Narayan and P.K.Mittal,S.Chand and Comp.Ltd.
4. Calculus by G.B. Thomas and R.L. Finney, 9th edition, Pearson Education, Delhi, 2005.
5. Calculus by H. Anton, I. Bivens and S. Davis, John Wiley and Sons(Asia) Pvt. Ltd.
6. Calculus A Complete Course by Robert A. Adams, Pearson Addition Wesley, Toronto.

B.Sc.F.Y. Semester-II
(CBCS PATTERN)
CCM-2, Section-B
Paper IV: (Geometry)

Course Description: This course provides an elementary knowledge of Co-ordinates, Transformation of Co-ordinates, Direction Cosines, Plane, Right Line, Sphere, Cones, and Cylinder.

Objectives: A primary objective of the course is to learn elementary knowledge of Three Dimensional Geometry.

Outcomes: After successful completion of the course student will be able to

1. Understanding concepts on Three Dimensional Geometry.
2. Find equations of Right lines, Planes, Spheres, Cones and Cylinders.
3. Find the Direction cosines of any line under the different given conditions.
4. Understand the intersection of any two or three, three dimensional geometrical figures.
5. Transform the equation of a plane to the normal form.
6. Transform equation of line from the unsymmetrical to the symmetrical form.
7. Find the length of perpendicular from a point to a plane.
8. Find the angle of intersection of two spheres.
9. Understanding concepts of plane of contact.

Unit-I: Co-ordinates and Transformation of Co-ordinates

Direction cosines of a line, a useful relation, relation between direction cosines, Projection on a straight line, projection of a point on a line, projection of a segment on another line, projection of a broken line, projection of the join of two lines. Angle between two lines.

Transformation of Co-ordinates: Introduction, change of origin, change of the direction of a axes, relation between direction cosines of three mutual Perpendicular lines.

Unit-II: The Plane

General equation of first degree, converse of the preceding theorem, Transformation to the normal form, direction cosines of the normal to a plane, angle between two planes, determination of plane under given conditions, intercept form of the equation of a plane, plane through three points, system of planes, two sides of a plane, length of perpendicular from a point to a plane, bisectors of angle between two planes.

Unit-III: Right line

Representation of line, equation of line through a given point drawn in a given direction, equation of a line through two points, two forms of the equation of line, Transformation from the unsymmetrical to the symmetrical form, angle between a line and a plane, condition for a line to lie in a plane, coplanar lines, condition for coplanarity of lines, Number of arbitrary constants in the equation of straight line, determination of lines satisfying given conditions, the shortest distance between two lines, length of the perpendicular from a

point to a line.

Unit-IV: Sphere, Cones and Cylinders

Definition, equation of sphere, General equation of a sphere, The sphere through four given points, sphere, plane section of a sphere, intersection of two spheres, sphere with a given diameter, equation of a circle, Power of a point, equation of a tangent plane, plane of contact, the polar plane, pole of plane, some results concerning poles and polars, angle of intersection of two spheres, condition for the orthogonality of two spheres. Cones, cylinders: Definition, equation of a cone with a conic as a guiding curve, The right circular cone, definition, the cylinder, equation of a cylinder, the right circular cylinder, definition.

Text Book 1:

Analytical Solid Geometry, by Shanti Narayan and Dr. P.K. Mittal (S. Chand Publication.) (Reprint 2015).

Scope:

Unit I: Chapter 1: Art. 1.6, to 1.8, 1.9. Chapter 5: Art. 5.1 to 5.2.

Unit-II: Chapter 2: Art. 2.1 to 2.7.

Unit-III: Chapter 3: Art. 3.1 to 3.7.

Unit-IV: Chapter 6: Art. 6.1 to 6.7. Chapter 7: Art. 7.1, 7.1.1, 7.6, 7.6.1, 7.7, 7.7.1, 7.8, 7.8.1.

REFERENCES BOOKS :

1. Analytical Geometry of two and three dimensions, by Quiz Zameeruddin: Narsoba Pub.
2. Text Book on coordinate Geometry, by Gorakh Prasad, H.C. Gupta; Pothishala Pub.
3. Lecturers on Vector Analysis and Geometry, by T.M. Karde and M.S. Bendre.
4. Analytical Geometry of Three dimensions, by N. Saran and R.S. Gupta, Pothishala Pub.
5. A Text Book of Analytical Geometry of Three dimensions, by P. K. Jain and Khalil Ahmad, Wiley Eastern Ltd.
6. Elementary Treatise on Co-ordinate geometry of three Dimensions by R.J.T. Bell, Mac Millan India Ltd.

B.Sc.F.Y. Semester-II
(CBCS PATTERN)
CCMP-1, Based on CCM-1 and 2, Section-A
(Annual pattern)
Paper V: (PRACTICAL PAPER)
(Periods per Batch 2 per week , max . marks 100)

SOFTWARES: MATLAB or Related Freeware.

Note: PRACTICAL PAPER IS ONLY FOR B.Sc. Students.

Course Description: This course provides the Introduction to MATLAB , Interactive computation, Plotting of Graphs using MATLAB Software.

Objectives: The main objective of the course is to study MATLAB software and its application to solve problems in matrices and to plot the graphs of different functions.

Outcomes: After successful completion of the course student will be able to

1. Verify associativity of matrix addition, left distributive law and right distributive law of matrices.
2. Find determinant, eigen values, eigen vectors, inverse, powers and characteristics polynomial of a square matrix.
3. To draw the graph of different functions with the help of MATLAB software and related Freeware.

Section 1: Introduction to MATLAB:

MATLAB Programming language, Built-in Functions, Graphics, computations, External interface and Tool boxes. Basics of MATLAB: MATLAB windows, desktop, command window, workspace, Figure and Editor Windows, Input-output, File types, platform dependence, Printing. Programming in MATLAB: Scripts and 14 functions. Script files, function files: Executing of function, writing good functions, sub functions, compiled functions.

Section 2: Interactive computation :

(MATRICES) Matrices and Vectors, input, indexing, matrix manipulation, creating vectors. Matrix and Array operations, Arithmetic operations, Relational operations, logical operations, Elementary math functions, matrix functions, character string. Command line Functions, Inline functions, Anonymous functions. Built-in functions, finding the determinant of matrix, finding eigen-values and eigenvectors. Saving and loading Data, Importing data files, recording a session. Applications: - Linear Algebra. Solving a linear system, Gaussian elimination, Finding eigenvalues and eigenvectors, matrix factorization, advanced topics.

Section 3: Plotting of Graphs:

Plotting simple Graphs. Graphics: - Plotting of 2D graphs, Using subplot for multiple graphs, 3DPlots (Drawing of different Geometrical objects), saving and Printing.

Reference Book 1:

(for MATLAB Users).

1. Getting Started With MATLAB 7 by Rudra Pratap, Oxford University Press, (Indian Eden)www.oup.com, ISBN-0-19-568001-45.

Scope:

Chapter 1: Art. 1.1,1.6. Chapter 3: Art. 3.1, 3.2, 3.4, 3.5, 3.6, 3.7,

Chapter 4: Art. 4.1, 4.2

Chapter 5: Art. 5.1

Chapter 6: Art 6.1, 6.2, 6.3.

Reference Book 2:

(for Scilab Users).

1. SCILAB: A Practical Introduction to Programming and Problem Solving by Tejas Sheth

NOTE:

1. Section 1 is introductory part, so no question to be set for Examination.
2. Record book must contain 10 practical on section 2 and 10 Practical on section 3.

B.Sc. F.Y. PRACTICAL PAPER
(Annual pattern)
WITH EFFECTIVE FROM June 2019
(LIST OF PRACTICALS)

N.B.: PRACTICAL PAPER IS ONLY FOR B.Sc. STUDENTS.

Any twenty of the following practical problems :

1. To enter the Matrix A and pick-out following entries from it : $A_{11}, A_{21}, A_{22}, A_{23}$.
2. To find the transpose a matrix.
3. For two matrices A and B, to find $A + B$ and $B + A$ and to verify whether the matrix addition is commutative.
4. For a square matrix A to find A^2, A^3, A^4, A^5 .
5. For two matrices A and B, confirmable for multiplication from both sides, to find AB and BA .
6. To verify the associativity of matrix addition.
7. To verify both left distributive law and right distributive law.
8. To find the determinant of a square matrix.
9. To find the inverse of a square matrix
10. To find the rank of the matrices.
11. To solve the system of linear equations whose matrix equation is $Ax = b$ and check the solution.
12. To find the eigen values of a square matrix.
13. To find the eigen vectors of a square matrix.
14. To find the characteristic polynomial of a square matrix.
15. To find the conjugate of a matrix.
16. To plot $f(x) = e^{\frac{-x}{10}} \sin x$ for x between 0 and 20.
17. To plot $r(\theta) = 1 + 2 \sin(2\theta)$ for $0 < \theta < 2\pi$.
18. To plot the contours of $z = \cos x \cos y \exp(\sqrt{x^2 + \frac{y^2}{4}})$ over the default domains.
19. To plot the surface for $z = \frac{-5}{(1+x^2+y^2)}$ over the domain $|x| < 3$ and $|y| < 3$.
20. To plot multiple graphs $y_1 = \sin t, y_2 = t, y_3 = 1 - \frac{t^3}{3!} + \frac{t^5}{5!}$ in same figure window.
21. To plot $x = e^{-t}, y = t, 0 \leq t \leq 2\pi$.
22. To plot $f(t) = t \sin t, 0 \leq t \leq 10\pi$.
23. To plot the surface $z = \frac{xy(x^2-y^2)}{x^2+y^2}, -3 \leq x \leq 3, -3 \leq y \leq 3$ by computing the values of z over 50×50 grid on specified domain.

24. To draw a cylinder with base radius $r = 40$ and top radius $r = 60$.
25. To plot the unit sphere.
26. To draw discrete data plot with stems : $x = t, y = t \sin(t), z = e^{\frac{t}{10}} - 1$ for $0 \leq t \leq 6\pi$.
27. To draw the MATLAB logo $z = \cos x \cos y e^{-\frac{\sqrt{x^2+y^2}}{4}}$ for $|x| \leq 5, |y| \leq 5$.
28. To draw the pie chart for the world population by continents for data.
29. To draw the bar chart for the world population by continents for data.
30. To plot $x = t, y = e^t, 0 \leq t \leq 2\pi$.

QUESTION PAPER PATTERN B.A./B.Sc. F.Y.

CBCS SEMESTER SYSTEM

SUB: MATHEMATICS

(w.e.f. 2019-20)

Maximum Marks: 40	Time:
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Q.1 Attempt any Three of the following (5 Marks each) - 15 Marks

- a)
- b)
- c)
- d)

Based on Unit (I & II)
Two from each Unit

Q.2 Attempt any Three of the following (5 Marks each) - 15 Marks

- a)
- b)
- c)
- d)

Based on Unit (III & IV)
Two from each Unit

Q.3 Attempt any Two of the following (5 Marks each) - 10 Marks

- a)
- b)
- c)

Based on Unit (I, II & III)
One from each Unit

Note: At least One Theory and One Problem in each question.

* * * * *

॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

“Dnyanteerth”, Vishnupuri, Nanded - 431606 Maharashtra State (INDIA)

Established on 17th September 1994 – Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



ACADEMIC (1-BOARD OF STUDIES) SECTION

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संलग्नित महाविद्यालयांतील विज्ञान व तंत्रज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे CBCS Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ०८ जून २०१९ रोजी संपन्न झालेल्या ४४व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.११/४४-२०१९ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील विज्ञान व तंत्रज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्यात येत आहेत.

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|---|---------------------------------------|
| 1. Agricultural Microbiology | 18. Dyes and Drugs |
| 2. Agrochemicals & Fertilizers | 19. Electronics |
| 3. Analytical Chemistry | 20. Environmental Science |
| 4. B.C.A. | 21. Fishery Science |
| 5. B.Voc. (Food Processing, Preservation and Storage) | 22. Food Science |
| 6. B.Voc. (Web Printing Technology) | 23. Geology |
| 7. Biochemistry | 24. Horticulture |
| 8. Bioinformatics | 25. Industrial Chemistry |
| 9. Biophysics | 26. Information Technology (Optional) |
| 10. Biotechnology (Vocational) | 27. Mathematics |
| 11. Biotechnonology | 28. Microbiology |
| 12. Botany | 29. Network Technology |
| 13. Chemistry | 30. Physics |
| 14. Computer Application (Optional) | 31. Software Engineering |
| 15. Computer Science (Optional) | 32. Statistics |
| 16. Computer Science | 33. Zoology |
| 17. Dairy Science | |

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड - ४३१ ६०६.

जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदवी-सीबीसीएस अभ्यासक्रम/
२०१९-२०/२९२

दिनांक : ०३.०७.२०१९.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) साहाय्यक कुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) उपकुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

स्वाक्षरित / -

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)
Faculty of Science and Technology
Subject: Microbiology
B. Sc. First Year (Semester – I & II)
Semester Pattern effective from June – 2019

Semester	Paper No./ Course No.	Name of the Course	Instruction Hrs/ week	Total period	Internal Evaluation	Marks of Semester	Total Marks	Credits
I	CCMB I (Section A)	Introductory Microbiology (PI)	03	45	10	40	50	2
	CCMB I (Section B)	Fundamentals of Microbiology (PII)	03	45	10	40	50	2
II	CCMB II (Section A)	Basic Microbiology & Bio-molecules (PIII)	03	45	10	40	50	2
	CCMB II (Section B)	Microbial Physiology (PIV)	03	45	10	40	50	2
	CCMBP I [CCMB I & II (Section A & B)]	Practical's based on Section A & Section B of CCMB I & CCMB II (P V)	04	20 Practical	20	80	100	4
				Total credits semester I and II: 12				

Continuous Assessment for Practical (20) – Test/ Assignment and Record Book

Semester	Course No.	Name of the Course	Instruction Hrs/ week	Total period	Internal Evaluation	Marks of Semester	Total Marks	Credits
III	CCMB III (Section A)	Applied Microbiology (P-VI)	03	45	10	40	50	2
	CCMB III (Section B)	Immunology(P-VII)	03	45	10	40	50	2
	CCMBP II [CCMB III & IV (Section A)]	Practical's based on P-VI & P-VIII (P-X)	04		10	40	50	2
	CCMBP II [CCMB III & IV (Section B)]	SEC I (1 Skill/ optional)			15×3 = 45	-	-	(02)*
IV	CCMB IV (Section A)	Food, Soil Microbiology and Microbial Ecology (P-VIII)	03	45	10	40	50	2
	CCMB IV (Section B)	Medical microbiology (PIX)	03	45	10	40	50	2
	CCMBP III [CCMB III & IV (Section B)]	Practical's based on P-VII & P-IX (P-XI)	04	10 Practicals	10	40	50	2
	CCMBP III [CCMB III & IV (Section B)]	SEC II (1 Skill / optional)			15×3 = 45	-	-	(02)*
				Total credits semester III and IV				12(04)*

Semester/ Annual	Course No.	Name of the Course	Instruction Hrs./ Week	Total Periods	Internal Evaluation (CA)	End Semester Examination (ESE)	Total Marks	Credits
V Semester	DSEMBI (Section A)	Microbial Genetics (P – XII)	03	45	10	40	50	2
	DSEMB I [Section B I] OR DSEMB I [Section B II]	Microbial Metabolism (P – XIII A) OR Nitrogen Metabolism (P – XIII B)	03	45	10	40	50	2
VI Semester	DSEMB II (Section A)	Molecular Biology (P-XIV)	03	45	10	40	50	2
	DSEMB II [Section B I] OR DSEMB II [Section B II]	Industrial Microbiology (P – XVA) OR Pharmaceutica I Microbiology (P – XVB)	03	45	10	40	50	2
Annual Practicals / Skill	DSEMBP I [DSEMB I & II Section A]	Practicals Based on P – XII & P -XIV (P -XVI)	04	10 Practical	10	40	50	2
	SECMB III (A OR B)	Enzyme Technology (A) OR Molecular Biology Techniques (B)	03	45	25	25	50	(02) *
Annual Practicals / Skill	DSEMBP II [DSEMB I & II (Section B I & II)]	Practicals based on P -XIII A & B & P – XV A & B (P -XVII)	04	10 Practical	10	40	50	2
	SECMB IV (A OR B)	Bioprocess Technology (A) OR Good Manufacturing Practices (B)	03	45	25	25	50	(02) *
Total Credits Semester V & VI								12 (04*)

Outline and Salient Feature:

B. Sc. Microbiology syllabus is crafted to serve the need of choice based credit system course structure to orient and practically train students in the field of Microbiology. The course is specifically bringing core courses, skilled enhanced and discipline elective courses together dealing additional domain of knowledge in this field of study where in Core Course includes Introductory and basic microbiology, microbial physiology and biochemistry, applied microbiology, immunology and medical microbiology.

Skill enhanced courses includes public health, diagnostic microbiology, medical laboratory technology and microbial biofertilizers, and also on enzyme, bioprocess technology, GMP and molecular biology techniques is well suited to understand application of scientific and engineering skills to the processing of materials by microorganisms.

DSE course based on microbial genetics and molecular biology is concerned with genes, mutation, recombination, DNA replication, transcription, translation, associated phenomena and their manipulation and techniques of such manipulation. Another DSE course (with choice) provide an option to learn diverse metabolic events occurring in view of the particular microorganisms and its environment and agriculture and to relate this information to a biology as a whole. This course is giving emphasis on enzymology, microbial metabolism, nitrogen metabolism and also offer industrial microbiology or pharmaceutical Microbiology as DSE courses is an area of applied microbiology which deals production of various useful end products on large scale.

Utility:

The syllabus of B. Sc. microbiology course will orient and train the students in view of general microbiology, medical microbiology and laboratory technology, microbial genetics and molecular biology, occurrence of metabolic events and its relation to environment and agriculture, Industrial and Pharmaceutical Microbiology to understand and apply this knowledge for carrier orientation.

SE Course will provide additional opportunity for a student to develop skills of interest in this field of study.

Learning Objectives:

The learning or training objectives of SEC has been mentioned below the skill of the course.

Prerequisite:

The course is offered for a student registered for undergraduate programme in the faculty of Science and technology who had primary training in the field of biology at higher secondary school level evident in terms of certificate by CBSC/ ICSC/HSC for entry level core courses in microbiology optional subject. Whereas for SEC and DSE courses, student preferably needs training in microbial sciences and also likes to gain additional advanced knowledge in this field of science.

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)
Faculty of Science and Technology
B. Sc. First Year (Semester – I)
Subject: Microbiology
Paper Name: Introductory Microbiology (P-I) CCMB I (Section A)
Paper Number: I

Credits: 02 (Marks: 50)

Periods: 45

Unit I: Scope of Microbiology

Periods: 08

- 1.1 Definition and concept
- 1.2 Types of microorganisms
- 1.3 Distribution of microorganisms in nature
- 1.4 Beneficial & Harmful role of microorganisms in Agriculture, Human & Animal health, Industries and Genetic engineering with suitable examples

UNIT II: Historical Developments in Microbiology

Periods: 15

- 2.1 Early observation of microorganisms
- 2.2 Controversy over spontaneous generation - Contribution of different scientists
- 2.3 Recognition of microbial role in diseases - Koch's postulates and contribution of Louis Pasteur and Edward Jenner
- 2.4 Recognition of microbial role in fermentation
- 2.5 Discovery of pure culture concept
- 2.6 Aseptic surgery

UNIT III: General Characters of Microorganisms

Periods: 12

- 3.1 The eukaryotic cell: Algae, Fungi and Lichens.
- 3.2 Prokaryotic cell: Archaeobacteria, Bacteria and Actinomycetes.
- 3.3 Difference between Eukaryotic and Prokaryotic cell.
- 3.4 General characters of viruses
- 3.5 General characters of Protozoa

UNIT IV: Taxonomy of Microbes

Periods: 10

- 4.1 Microbial Classification and Nomenclature
 - a. Taxonomic groups
 - b. Goals of classification
- 4.2 General methods of classifying bacteria: Intuitive method, Numerical taxonomy and Genetic relatedness.
- 4.3 Nomenclature of bacteria
- 4.4 Introduction to Bergey's Manual of Bacteriology (9th edition)

References:

1. Handbook of Microbiology. Bisen P.S., Varma K.: CBS Publishers and Distributors, Delhi. Introduction to viruses: Vikas Publishing House Pvt. Ltd., New Delhi.
2. A textbook of fungi and Viruses by Dubey H.C.: Vikas Publishing House Pvt. Ltd. Delhi.
3. A textbook of Microbiology by Dubey R.C. and D. K, Maheshwary, S Chand and Co. New Delhi.

4. Fundamentals of Microbiology by Frobisher, Hinsdill, Crabtree, Goodheart: W.B. Saunders Company, U.S.A. Toppan Company Ltd., Japan.
5. General Virology by Luria
6. Elementary Microbiology (Fundamentals of Microbiology) Vol. II, Modi H.A.: Ekta Prakashan, Nadiad, Gujrat
7. Modern Microbiology by Parasher Y.K. Campas Books International, New Delhi.
8. Elements of Microbiology by Pelczar Michael J. Jr./E.C.S Chan, McGraw, Hill International Book Company, New Delhi.
9. Microbiology: Concepts and applications by Pelczar Michael J., Jr. E.C.S Chan, Noel R. Krieg: - McGraw Hill Inc.
10. Microbiology by Pelczar Michael J., Reid R.D. and Chan E.C.S. Tata McGraw hill publishing Co. Ltd., New Delhi.
11. General microbiology Vol I and II by Powar C. B. and Dagainawala H.I. Himalaya publishing house, Bombay.
12. Microbiology by Prescott L.M. Harley J.P. and Klein Donald A., W. M. C. Brown publishers.
13. Microbiology: Fundamentals and Applications by Purohit S.S. Agro-Botanical publishers Bikaner, India.
14. Microbiology- Fundamentals and applications by R.A. Atlas
15. Microbiology by Singh R.P., Kalyani Publication.
16. General Microbiology by Stanier Roger Y., Adelberg Edward A. Ingraham Johan L. Prentice-Hall, Englewood Cliffs, New Jersey, Publishing Co. Ltd., New Delhi.
17. Introduction to Microbiology by Tauro P, Kapoor K.K., Yadav K.S. Wiley Eastern Ltd., New Delhi.
18. Microbiology: an Introduction by Tortora G.J. Funke B. and Case Christine L, The Benjamin Publishing Co. New York.
19. Microbiology by Yadav Manju, Discovery Publishing House,
20. Introduction to Microbial Techniques by Gunasekaran
21. Handbook of microbiological media, Hi-media.
22. Practical Microbiology by Dubey and Maheshwari.
23. General Microbiology: Seventh edition by Hans G Schlegel, Cambridge University Press.
24. Willey, Joanne M. Prescott, Harley, and Klein's Microbiology / Joanne M. Willey, Linda M. Sherwood, Christopher J. Woolverton. — 7th ed. Published by McGraw-Hill, a business unit of The McGraw-Hill Companies, Inc., 1221 Avenue of the Americas, New York, NY 10020.
25. Brock Biology of Microorganisms, Thirteenth Edition by Michael T. Madigan, John M. Martinko, David A. Stahl, David P. Clark, Benjamin Cummings, 1301 Sansome Street, San Francisco, CA 94111.
26. Manual of Methods for Pure Culture Study, by A. B. Solunke, P. S. Wakte, V. D. Hamde, and R. S. Awasthi, Nirmal Publication Delhi (India).
27. Fundamental Microbiology, First edition by B. M. Sandikar, Books and Allied (P) LTD. Kolkata.

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)
Faculty of Science and Technology
B. Sc. First Year (Semester – I)
Subject: Microbiology
Paper Name: Fundamentals of Microbiology (P – II) CCMB I (Section B)
Paper Number: II

Credits: 02 (Marks: 50) **Periods: 45**

UNIT I: Bioinstrumentation

Periods: 12

- 1.1 Microscopy: Definition of Magnification, Resolving power, Depth of focus, Focal length, Angular aperture and Numerical aperture.
- 1.2 Objectives (Low, High, oil immersion) and oculars function.
- 1.3 Condensers: Abbes, Cardioids, Parabolic and their functions.
- 1.4 Principle, construction using ray diagram and applications of compound microscope:
- 1.5 Electron microscope (SEM and TEM).

UNIT II: Ultra Structure of Bacterial Cell

Periods: 12

- 1.1 Basic concepts of shape, arrangement, and size of prokaryotes cells, Importance of cell shape, cell size in rods and cocci.
- 1.2 Structure, Chemical composition and function of following:
 - a. Capsule and slimes
 - b. Cell wall and cytoplasmic membranes
 - c. Flagella and Motility, fimbriae and pili
 - d. Nuclear material, Plasmids, Mesosomes and Ribosome
 - e. Reserve materials and other cellular inclusions

UNIT III - Sterilization Techniques

Periods: 11

- 3.1 Definition of Sterilization, Disinfection, Antiseptic, Germicide, Sanitizer, Fungicide, Viricide, Bacteriostatic and Bactericidal agent.
- 3.2 Chemical Disinfectants: Properties of ideal disinfectant, Chemical Agents: Phenol and Phenolic compounds, Alcohols, Gaseous sterilizing Agents: Formaldehyde, Ethylene oxide and β - Propiolactone.
- 3.3 Evaluation of disinfectant (Phenol coefficient).
- 3.4 Sterilization by Physical Agent a) Moist Heat: Boiling, Tyndallization, Pasteurization and Steam under pressure (Autoclave). Dry heat: Flaming, Incineration and Hot air oven. b) Radiation: Ionizing and Non-Ionising radiations. c) Filtration and Types of filters (Concept with e.g. Seitz filter)

UNIT IV: Microbial Nutrition

Periods: 10

- 1.1 Concept of microbial nutrition
- 1.2 The common nutrient requirements (Basic Nutritional requirements of Microorganisms /macronutrient and micronutrient)
- 1.3 Requirement for C, H, O and Electron with their significance
- 1.4 Requirements for N, P and S with their significance
- 1.5 Growth factors
- 1.6 Nutritional categories of microorganisms on the basis of carbon and energy source.

References:

1. Handbook of Microbiology. Bisen P.S., Varma K.: CBS Publishers and Distributors, Delhi. Introduction to viruses: Vikas Publishing House Pvt. Ltd., New Delhi.
2. A textbook of fungi and Viruses by Dubey H.C.: Vikas Publishing House Pvt. Ltd. Delhi.
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10. Microbiology by Pelczar Michael J., Reid R.D. and Chan E.C.S. Tata McGraw hill publishing Co. Ltd., New Delhi.
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Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)

Faculty of Science and Technology

B. Sc. First Year (Semester – II)

Subject: Microbiology

Paper Name: Basic Microbiology & Biomolecules (P-III) CCMB II (Section A)

Paper Number: III

Credits: 02 (Marks: 50)

Periods: 45

UNIT I: Microbial Staining Techniques

Periods: 11

- 2.1 Definition: Stain, Dye, Acidic stain, Basic stain, Auxochrome, Chromophore, Mordant, Chromogen, Leuco compound, Natural stain, Fluorochrome, Decolouring agent and Counter stain.
- 2.2 Theories of Staining.
- 2.3 Principles, mechanism, procedure and observation of:
 - a. Simple staining: Monochrome & Negative staining
 - b. Differential staining: Gram's & Acid fast staining
 - c. Structural staining: Cell wall & PHB staining

UNIT II: The Viruses: Distribution and Structure

Periods: 11

- 2.1 Viruses
- 2.2 Bacterial viruses (Bacteriophages)
- 2.3 Multiplication of Virulent phage: The lytic cycle
- 2.4 The development of temperate phages: Lysogeny
- 2.5 Classification of viruses (LHT system)
- 2.6 Distribution and structure of HIV
- 2.7 Enlist plant animal and human viral diseases with their causative agents

UNIT III: Biomolecules

Periods: 11

- 3.1 Carbohydrates
 - a. Definition and classification
 - b. Triose, Pentose, Hexose (Examples)
 - c. Disaccharides:- Glycoside linkage (Lactose, Maltose and Sucrose)
 - d. Oligosaccharides:- Trisaccharides (Raffinose)
 - e. Polysaccharides:- Homo and Heteropolysaccharides
 - f. Biological Significance of carbohydrates
- 3.2 Lipids
 - a. Definition and Classification
 - b. Types of lipids
 - i. Simple lipids:- Triglycerides
 - ii. Conjugated lipids:- Phosphatidic acid, Phospholipids and cholesterol
 - c. Biological importance of lipids

UNIT IV: Informational and Functional Biomolecules

Periods: 12

- 4.1 Nucleic acids
 - a. Ribose and Deoxyribose sugars, Nitrogen bases, Nucleosides and Nucleotides
 - b. DNA:- Properties, Structure and Functions

c. RNA:- Properties, Structure and Functions

4.2 Proteins

- a. Definition and classification
- b. Peptide bonds
- c. Enzymes
- d. Biological Significance of proteins

References:

1. Handbook of Microbiology. Bisen P.S., Varma K.: CBS Publishers and Distributors, Delhi. Introduction to viruses: Vikas Publishing House Pvt. Ltd., New Delhi.
2. A textbook of fungi and Viruses by Dubey H.C.: Vikas Publishing House Pvt. Ltd. Delhi.
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9. Microbiology: Concepts and applications by Pelczar Michael J., Jr. E.C.S Chan, Noel R. Krieg: - McGraw Hill Inc.
10. Microbiology by Pelczar Michael J., Reid R.D. and Chan E.C.S. Tata McGraw hill publishing Co. Ltd., New Delhi.
11. General microbiology Vol I and II by Powar C. B. and Dagainawala H.I. Himalaya publishing house, Bombay.
12. Microbiology by Prescott L.M. Harley J.P. and Klein Donald A., W. M. C. Brown publishers.
13. Microbiology: Fundamentals and Applications by Purohit S.S. Agro-Botanical publishers Bikaner, India.
14. Microbiology- Fundamentals and applications by R.A. Atlas
15. Microbiology by Singh R.P., Kalyani Publication.
16. General Microbiology by Stanier Roger Y., Adelberg Edward A. Ingraham Johan L. Prentice-Hall, Englewood Cliffs, New Jersey, Publishing Co. Ltd., New Delhi.
17. Introduction to Microbiology by Tauro P, Kapoor K.K., Yadav K.S. Wiley Eastern Ltd., New Delhi.
18. Microbiology: an Introduction by Tortora G.J. Funke B. and Case Christine L, The Benjamin Publishing Co. New York.
19. Microbiology by Yadav Manju, Discovery Publishing House,
20. Introduction to Microbial Techniques by Gunasekaran
21. Handbook of microbiological media, Hi-media.
22. Practical Microbiology by Dubey and Maheshwari.
23. General Microbiology: Seventh edition by Hans G Schlegel, Cambridge University Press.
24. Fundamental Microbiology, First edition by B. M. Sandikar, Books and Allied (P) LTD. Kolkata.

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)
Faculty of Science and Technology
Subject: Microbiology
B. Sc. First Year (Semester – II)
Paper Name: Microbial Physiology (P-IV) CCMB II (Section B)
Paper Number: IV

Credits: 02 (Marks: 50)

Periods: 45

UNIT I: Bacterial Cultivation and Maintenances

Periods: 10

- 4.1 Cultivation of Bacteria a) Media used, Properties of good culture media. b) Definition, Concept, use and different types of culture media: Synthetic, Non-synthetic, Natural, Selective, Differential, Enriched, Enrichment, Assay, Minimal, Maintenance and Transport Medium.
- 4.2 Buffers in culture medium.
- 4.3 Anaerobic cultivation: Media and methods of anaerobic cultivation
- 4.4 Pure culture Techniques. a) Definition and Significance of pure culture b) Methods of isolation of pure culture: Streak plate, Pour plate, Spread plate and Single cell isolation.

UNIT II: Permeation

Periods: 12

- 2.1 Passive diffusion
- 2.2 Facilitated diffusion
- 2.3 Active transport mechanism
- 2.4 Group translocation
- 2.5 Uptake of amino acids and sugars (as examples)

UNIT III: Reproduction and Growth

Periods: 15

- 3.1 Concept of growth
- 3.2 Microbial Reproduction: Binary fission, budding.
- 3.3 Bacterial growth: Definition, growth curve – Phases of growth, Growth Kinetics, Generation time, Methods of measurement of growth, different types of culture system: Batch culture system, Continuous culture system (Chemostat and Turbidostat)
- 3.4 Factors affecting growth-Temperature, pH, Osmotic pressure and Nutrients.

UNIT IV Bacterial Sporulation

Periods: 08

- 3.1 Bacterial Sporulation- Structure of endospore, Endospore formation (Stages) in *Bacillus*, Spore germination, Significance of Ca-dipicolinate (DPA) and soluble Proteins (SASP)

References:

1. Handbook of Microbiology. Bisen P.S., Varma K.: CBS Publishers and Distributors, Delhi. Introduction to viruses: Vikas Publishing House Pvt. Ltd., New Delhi.
2. A textbook of fungi and Viruses by Dubey H.C.: Vikas Publishing House Pvt. Ltd. Delhi.
3. A textbook of Microbiology by Dubey R.C. and D. K, Maheshwary, S Chand and Co. New Delhi.

4. Fundamentals of Microbiology by Frobisher, Hinsdill, Crabtree, Goodheart:: W.B. Saunders Company, U.S.A. Toppan Company Ltd., Japan.
5. General Virology by Luria
6. Elementary Microbiology (Fundamentals of Microbiology) Vol. II, Modi H.A.: Ekta Prakashan, Nadiad, Gujrat
7. Modern Microbiology by Parasher Y.K. Campas Books International, New Delhi.
8. Elements of Microbiology by Pelczar Michael J. Jr./E.C.S Chan, McGraw, Hill International Book Company, New Delhi.
9. Microbiology: Concepts and applications by Pelczar Michael J., Jr. E.C.S Chan, Noel R. Krieg: - McGraw Hill Inc.
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Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)

Faculty of Science and Technology
B. Sc. First Year (Semester – I & II)

Subject: Microbiology

Paper Name: Annual Practical's based on Section A & Section B of CCMB
I & CCMB II (PV)

Paper Number: V

Credits: 04

Marks: 100

(Annual Practical's based on Section A & Section B of CCMB I & CCMB II (PV) (Practical syllabus requires four periods per batch per week for 2 consecutive days B.Sc. First year practical includes studies of growth of microorganisms and life activities of Microorganisms. These studies need two consecutive days for completion of practical.)

1. Microscopy- Different parts of compound microscope. Use and care of compound microscope
2. Construction, Operation and utility of laboratory Equipments. (any Six)
 - a. Autoclave
 - b. Hot air oven
 - c. Incubator
 - d. pH meter
 - e. High speed centrifuge
 - f. Colorimeter/Spectrophotometer
 - g. Anaerobic jar
 - h. Bacterial filters
 - i. Laminar air flow
3. Staining
 - a. Simple staining: Monochrome, Negative
 - b. Differential : Gram's staining
 - c. Structural staining:
 - i. Cell wall staining (Chance's method)
 - ii. PHB staining (Burdon's method.)
4. Hanging drop technique.
5. Micrometry
6. Preparation of culture media
 - a. Nutrient broth and Agar
 - b. MacConkey's Broth and Agar
 - c. Sugar Media
7. Isolation of bacteria from mixed culture
 - a. Streak plate method
 - b. Spread plate method
 - c. Pour plate method
8. Effect of physical and chemical agents on growth of bacteria
 - a. pH
 - b. Temperature
 - c. U.V. rays
 - d. Antibiotics
9. Qualitative tests for
 - a. Carbohydrates: Benedict's test
 - b. Protein: Biuret test
 - c. Nucleic acid: Diphenylamine test (DPA) for DNA and Orcinol test for RNA.
10. Demonstration of Yeast, Fungi, Actinomycetes, Algae and Protozoa.
11. Study of Bacterial Growth curve.

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)
Faculty of Science and Technology
Subject: Microbiology
B. Sc. First Year (Semester – I & II)
Paper Name: Practical's based on Section A & Section B of CCMB
I & CCMB II (PV)
Paper Number: V
PROFORMA FOR PRACTICAL EXAMINATION

Time: Four hours per day per batch for two consecutive days

Marks: 80

1. Isolation of Bacteria		20
OR		
Study of growth curve		
Approach	- 04	
Requirements	- 03	
Procedure	- 02	
Technique	- 05	
Result and Observation	- 03	
Conclusion	- 02	
Viva Voce	- 01	
2. Staining (Any One)		15
Approach	- 04	
Requirements	- 02	
Procedure	- 02	
Technique	- 03	
Result and Observation	- 02	
Viva Voce	- 02	
3. Hanging drop technique / Micrometry / Medium Preparation		15
Approach	- 04	
Requirements	- 02	
Procedure	- 02	
Technique	- 02	
Result and Observation Conclusion	- 03	
Viva Voce	- 02	

4.	a) Effect of pH/Temperature/U.V. Radiation/ Heavy metals	10
	Approach	- 04
	Requirement	- 02
	Procedure	- 02
	Result and Observation Conclusion Viva	- 02
	b) Biochemical tests	05
	(Carbohydrate/Protein/NA)	
	Procedure	- 03
	Result and Observation Conclusion Viva	- 02
5.	Spotting	15
	i. Parts of microscope/Instruments	
	ii. Stain	
	iii. Nutrient media	
	iv. Permanent slide of Algae/Fungi/Protozoa/Actinomycetes	
	v. Technique	

Distribution of credits for B.Sc. Microbiology (optional)

Under Faculty of Science

B. Sc. Syllabus structure

Semester Pattern effective from June 2016

Subject: Microbiology

Semester	Paper No.	Name of the Course	Instruction Hrs/ week	Total period	Internal Evaluatio	Marks of Semester	Total Marks	Credits
I	CCMB I (Section A)	Introductory Microbiology (PI)	03	45	10	40	50	2
	CCMB I (Section B)	Microbiological Techniques (PII)	03	45	10	40	50	2
II	CCMB II (Section A)	Basic Microbiology & Bio-molecules (PIII)	03	45	10	40	50	2
	CCMB II (Section B)	Microbial Physiology (PIV)	03	45	10	40	50	2
	CCMBP I [CCMB I & II (Section A & B)]	Practical's based on Section A & Section B of CCMB I & CCMB II (PV)	04	20 Practical	20	80	100	4

Total credits semester I and II: 12

III	CCMB III (Section A)	Applied Microbiology (P-VI)	03	45	10	40	50	2
	CCMB III (Section B)	Immunology(P-VII)	03	45	10	40	50	2
	CCMBP II [CCMB III & IV (Section A)]	Practical's based on P-VI & P-VIII (P-X)	04		10	40	50	2
	CCMBP II [CCMB III & IV (Section B)]	SEC I (1 Skill/ optional)			15×3 = 45	-	-	(02)*
IV	CCMB IV (Section A)	Food, Soil Microbiology and Microbial Ecology(P-VIII)	03	45	10	40	50	2
	CCMB IV (Section B)	Medical microbiology (P-IX)	03	45	10	40	50	2
	CCMBP III [CCMB III & IV (Section B)]	Practical's based on P-VII & P-IX (P-XI)	04	10 practical	10	40	50	2
	CCMBP III [CCMB III & IV (Section B)]	SEC II (1 Skill / optional)			15×3 = 45	-	-	(02)*
Total credits semester III and IV								12(04)*

Semester	Course No.	Name of the Course	Instruction Hrs/ week	Total period	Internal Evaluation	Marks of Semester	Total Marks	Credits
V	DECMB I (Section A)	Microbial Genetics (P-XII)	03	45	10	40	50	2
	DECMB I [(Section B) Elective]	Microbial Metabolism (P-XIII)	03	45	10	40	50	2
	DECCMBP I [DECMB I & II (Section A)]	Practical's based on P- XII & PXIV(P-XVI)	04	10 Practical	10	40	50	2
	DECMBP II [DECMB I& IV (Section B)]	SEC III (1 Skill/ optional)			15×3 = 45	-	-	(02)*
VI	DECMB II (Section A)	Molecular Biology(P-XIV)	03	45	10	40	50	2
	DECMB II [(Section B) Elective]	Industrial Microbiology (P- XV)	03	45	10	40	50	2
	DECMBP II) [DECMB I & II (Section B)]	Practical's based on P- XIII & P-XIV (P- XVII)	04	10 Practical	10	40	50	2
	DECMBP II(Section B)	SEC IV (Project))			50	-	50	(2)*
Total credits semester V and VI								12(04)*

B. Sc. First year (Semester - I)
Semester Pattern effective from -2016
MICROBIOLOGY
CCMB I (Section A)
INTRODUCTORY MICROBIOLOGY (P-I)

Credits: 02 (Marks: 50)

Periods: 45

UNIT I: Scope of Microbiology

Periods: 08

- 1.1 Definition and concept.
- 1.2 Types of microorganisms.
- 1.3 Distribution of microorganisms in nature.
- 1.4 Beneficial & Harmful role of microorganisms in Agriculture, Human & Animal health, Industries and Genetic engineering with suitable examples.

UNIT II: Historical Developments In Microbiology

Periods: 15

- 2.1 Early observation of microorganisms.
- 2.2 Controversy over spontaneous generation - Contribution of different scientists.
- 2.3 Recognition of microbial role in diseases - Koch's postulates and contribution of Louis Pasteur and Edward Jenner.
- 2.4 Recognition of microbial role in fermentation.
- 2.5 Discovery of pure culture concept.
- 2.7 Aseptic surgery.

UNIT III: General characters of microorganisms

Periods: 12

- 3.1 The eukaryotic cell: Algae, Fungi and Lichens.
- 3.2 Prokaryotic cell: Archaeobacteria, Bacteria and Actinomycetes.
- 3.3 Difference between Eukaryotic and Prokaryotic cell.
- 3.4 General characters of viruses
- 3.5 General characters of Protozoa

UNIT IV: Taxonomy of Microbes

Periods: 10

- 4.1 Microbial Classification and Nomenclature
 - a) Taxonomic groups.
 - b) Goals of classification.
- 4.2 General methods of classifying bacteria: Intuitive method, Numerical taxonomy and Genetic relatedness.
- 4.3 Nomenclature of bacteria.
- 4.4 Introduction to Bergey's Manual of Bacteriology (9th edition).

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course Structure (New scheme)

B. Sc. First year (Semester- I)

Semester Pattern effective from June -2016

Microbiology

CCMB I (Section B)

MICROBIOLOGICAL TECHNIQUES (P-II)

Credits: 02 (Marks: 50)

Periods: 45

UNIT I: Bioinstrumentation

Periods: 12

- i) Microscopy: Definition of Magnification, Resolving power, Depth of focus, Focal length, Angular aperture and Numerical aperture.
- ii) Objectives (Low, High, oil immersion) and oculars function.
- iii) Condensers: Abbes, Cardioids, Parabolic and their functions.
- iv) Principle, construction using ray diagram and applications of compound microscope:
- v) Electron microscope (SEM and TEM).

UNIT II: Microbial Staining Techniques

Periods: 10

2.1 Definition: Stain, Dye, Acidic stain, Basic stain, Auxochrome, Chromophore, Mordent, Chromogen, Leuco compound, Natural stain, Flurochrome, Decolouring agent and Counter stain.

2.2. Theories of Staining.

2.3. Principles, mechanism, procedure and observation of:

- a) Simple staining: Monochrome & Negative staining
- b) Differential staining: Gram's & Acid fast staining
- c) Structural staining: Cell wall & PHB staining.

UNIT III - Sterilization Techniques

Periods: 13

3.1 Definition of Sterilization, Disinfection, Antiseptic, Germicide, Sanitizer, Fungicide, Viricide, Bacteriostatic and Bactericidal agent.

3.2 Chemical Disinfectants: Properties of ideal disinfectant, Chemical Agents: Phenol and Phenolic compounds, Alcohols, Gaseous sterilizing Agents: Formaldehyde, Ethylene oxide and β -Propiolactone.

3.3 Evaluation of disinfectant (Phenol coefficient).

3.4 Sterilization by Physical Agent a) Moist Heat: Boiling, Tyndallization, Pasteurization and Steam under pressure (Autoclave). Dry heat: Flaming, Incineration and Hot air oven. b) Radiation: Ionising and Non-ionising radiations. c) Filtration and Types of filters (Concept with e.g. stiz filter).

UNIT IV: Bacterial Cultivation and Maintenances

Periods: 10

4.1 Cultivation of Bacteria a) Media used, Properties of good culture media. b) Definition, Concept, use and different types of culture media: Synthetic, Non-synthetic, Natural, Selective, Differential, Enriched, Enrichment, Assay, Minimal, Maintenance and Transport Medium.

4.2 Buffers in culture medium.

4.3 Anaerobic cultivation: Media and methods of anaerobic cultivation

4.4 Pure culture Techniques. a) Definition and Significance of pure culture b) Methods of isolation of pure culture: Streak plate, Pour plate, Spread plate and Single cell isolation.

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course Structure (New scheme)

B. Sc. First year (Semester – II)

Semester Pattern effective from June -2016

Microbiology

CCMB II (Section A)

BASIC MICROBIOLOGY & BIOMOLECULES (P-III)

Credits: 02 (Marks: 50)

Periods: 45

UNIT I: Ultra structure of bacterial cell

Periods: 15

1.1 Basic concepts of shape, arrangement, and size of prokaryotes cells, Importance of cell shape, cell size in rods and cocci.

1.2 Structure, Chemical composition and function of following:

- a) Capsule and slimes
- b) Cell wall and cytoplasmic membranes
- c) Flagella and Motility, fimbriae and pili
- d) Nuclear material, Plasmids, Mesosomes and Ribosome
- e) Reserve materials and other cellular inclusions.

UNIT II: The viruses: Distribution and structure

Periods: 10

2.1 Viruses

2.2 Bacterial viruses (Bacteriophages)

2.3 Multiplication of Virulent phage: The lytic cycle

2.4 The development of temperate phages: Lysogeny

2.5 Classification of viruses (LHT system)

2.6 Distribution and structure of HIV

2.7 Enlist plant animal and human viral diseases with their causative agents

UNIT III: Biomolecules

Periods: 10

3.1 Carbohydrates

- a) Definition and classification
- b) Triose, Pentose, Hexose (Examples)
- c) Disaccharides:- Glycoside linkage (Lactose, Maltose and Sucrose)
- d) Oligosaccharides:- Trisaccharides (Raffinose)
- e) Polysaccharides:- Homo and Heteropolysaccharides
- f) Biological Significance of carbohydrates

3.2 Lipids

- a) Definition and Classification
- b) Types of lipids
 - i. Simple lipids:- Triglycerides
 - ii. Conjugated lipids:- Phosphatidic acid, Phospholipids and cholesterol
- c) Biological importance of lipids

UNIT IV: Informational & Functional Biomolecules

Periods: 10

4.1 Nucleic acids

- a) Ribose and Deoxyribose sugars, Nitrogen bases, Nucleosides and Nucleotides
- b) DNA:- Properties, Structure and Functions
- c) RNA:- Properties, Structure and Functions

4.2 Proteins

- a) Definition and classification
- b) Peptide bonds
- c) Enzymes
- d) Biological Significance of proteins

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course Structure (New scheme)

B. Sc. First year (Semester – II)

Semester Pattern effective from June -2016

MICROBIOLOGY

CCMB II (Section B)

MICROBIAL PHYSIOLOGY (P-IV)

Credits: 02 (Marks: 50)

Periods: 45

UNIT I: Microbial Nutrition

- 1.1 Concept of microbial nutrition
- 1.2 The common nutrient requirements (Basic Nutritional requirements of Microorganisms /macronutrient and micronutrient)
- 1.3 Requirement for C, H, O and Electron with their significance
- 1.4 Requirements for N, P and S with their significance
- 1.5 Growth factors
- 1.6 Nutritional categories of microorganisms on the basis of carbon and energy source.

UNIT II: Permeation (in brief)

Periods: 12

- 2.1 Passive diffusion
- 2.2 Facilitated diffusion
- 2.3 Active transport mechanism
- 2.4 Group translocation
- 2.5 Uptake of amino acids and sugars (as examples)

UNIT III: Reproduction and Growth

Periods: 15

- 3.1 Concept of growth
- 3.2 Microbial Reproduction: Binary fission, budding.
- 3.3 Bacterial growth: Definition, growth curve – Phases of growth, Growth Kinetics, Generation time, Methods of measurement of growth, different types of culture system: Batch culture system, Continuous culture system (Chemostat and Turbidostat).
- 3.4 Factors affecting growth-Temperature, pH, Osmotic pressure and Nutrients.

UNIT IV Bacterial Sporulation

Periods: 08

- 3.1 Bacterial Sporulation- Structure of endospore, Endospore formation (Stages) in *Bacillus*, Spore germination, Significance of Ca-dipicolinate (DPA) and soluble Proteins (SASP),

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course Structure (New scheme)

B. Sc. First year

Semester Pattern effective from June -2016

MICROBIOLOGY

Practical Paper: CCMBP-I (P-V)

(Annual practical Based on [CCMB I & II (Section A & B)])

(Practical syllabus requires **four periods per batch per week for 2 consecutive days** B.Sc. First year practical includes studies of growth of microorganisms and life activities of Microorganisms. These studies need two consecutive days for completion of practical.)

Credits: 04 (Marks: 100)

- 1) Microscopy- Different parts of compound microscope. Use and care of compound microscope
- 2) Construction, Operation and utility of laboratory equipments. (any Six)
 - a) Autoclave
 - b) Hot air oven
 - c) Incubator
 - d) pH meter
 - e) High speed centrifuge
 - f) Colorimeter/Spectrophotometer
 - g) Anaerobic jar
 - h) Bacterial filters
 - i) Laminar air flow
- 3) Staining
 - a. Simple staining: Monochrome, Negative
 - b. Differential : Gram's staining
 - c. Structural staining:
 - i. Cell wall staining (Chance's method)
 - ii. PHB staining (Burdon's method.)
- 4) Hanging drop technique.
- 5) Micrometry
- 6) Preparation of culture media
 - a) Nutrient broth and Agar
 - b) MacConkey's Broth and Agar
 - c) Sugar Media
- 7) Isolation of bacteria from mixed culture
 - a) Streak plate method
 - b) Spread plate method
 - c) Pour plate method
- 8) Effect of physical and chemical agents on growth of bacteria
 - a) pH
 - b) Temperature
 - c) U.V. rays
 - d) Antibiotics
- 9) Qualitative tests for
 - a) Carbohydrates: Benedict's test
 - b) Protein: Biuret test
 - c) Nucleic acid: Diphenylamine test (DPA) for DNA and Orcinol test for RNA.
- 10) Demonstration of Yeast, Fungi, Actinomycetes, Algae and Protozoa.
- 11) Study of Bacterial Growth curve.

Books Recommended

1. Handbook of Microbiology. Bisen P.S., Varma K.: CBS Publishers and Distributors, Delhi.
2. Introduction to viruses: Vikas Publishing House Pvt. Ltd., New Delhi.
3. A textbook of fungi and Viruses by Dubey H.C.: Vikas Publishing House Pvt. Ltd. Delhi.
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5. Fundamentals of Microbiology by Frobisher, Hinsdill, Crabtree, Goodheart:: W.B. Saunders Company, U.S.A. Toppan Company Ltd., Japan.
6. General Virology by Luria
7. Elementary Microbiology (Fundamentals of Microbiology) Vol. II, Modi H.A.: Ekta Prakashan, Nadiad, Gujrat
8. Modern Microbiology by Parasher Y.K. Campas Books International, New Delhi.
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**Swami Ramanand Teerth Marathwada
University, Nanded**



**B. O. S. IN CHEMISTRY
B. SC. SECOND YEAR (CHEMISTRY)
SEMESTER-III & IV
CBCS Course
Effective from JUNE - 2017**

Swami Ramanand Teerth Marathwada University, Nanded
Choice Based Credit System (CBCS) Course Structure
Faculty of Science
B. Sc. Second Year Syllabus
Semester Pattern effective from June 2017
Subject: Chemistry

Semester	Course No.	Name of the Course	Instruction Hrs/ week	Total period	CA (Int.)	ESE (Ext.)	Total Marks	Credits	
III	CCC III (Section A)	Theory Paper-VI Organic+Inorganic Chemistry (P-VI)	03	45	10	40	50	02	
	CCC III (Section B)	Theory Paper-VII Physical+Inorganic Chemistry (P-VII)	03	45	10	40	50	02	
	CCCP- II [CCC III & IV (Section A)]	Practical's based on P-VI & P-VIII (P-X)		04	08	05	20	25	01
				04	08	05	20	25	01
	SECC I	SEC I (Anyone Skill from optional)	02+01=03	45	25	25	50	(02)*	
IV	CCC IV (Section A)	Theory Paper-VIII Organic+Inorganic Chemistry (P-VIII)	03	45	10	40	50	02	
	CCC IV (Section B)	Theory Paper-IX Physical+Inorganic Chemistry (P-IX)	03	45	10	40	50	02	
	CCCP III [CCC III & IV (Section B)]	Practical's based on P-VII & P-IX (P-XI)		04	08	05	20	25	01
				04	08	05	20	25	01
	SECC II	SEC II (Anyone Skill from optional)	02+01=03	45	25	25	50	(02)*	
Total credits semester III and IV								12(04)*	

CCC: Core Course Chemistry, **CCCP:** Core Course Chemistry Practical, **ESE:** End of Semester Examination,

CA: Continuous Assessment, **SECC:** Skill Enhancement Course Chemistry.

Distribution of Credits: 80% of the total Marks for ESE and 20% for CA.

- **CA of Marks 10 :** 10 Marks for test.
- **CA of 25 Marks :** 15 Marks for Seminar & 10 Marks for test.

B. Sc. Second Year: Semester-III
Paper-VI, (CCC-III, Section A)
Organic & Inorganic Chemistry

Credits:02

Periods: 45

Part I (Organic Chemistry)

Unit:-I

Name Reaction with Mechanism

10

[A] Condensation reactions of Aldehydes and Ketones.

1. Benzoin Condensation Reaction.
2. Knoevengel Reaction.
3. Mannich Reaction
4. Perkins Reaction,
5. Reformatsky reaction.
6. Gatterman Koch reaction.
7. Gatterman synthesis.

[B] Reduction reactions

1. Clemmensen Reduction Reaction.
2. Meervin-Pondorof Verly reduction reaction.
3. Reduction with LiAlH_4 .
4. Reduction with NaBH_4 .

[C] OXIDATION REACTIONS.

1. Baeyer- Villiger Oxidation Reaction.
2. Oppenauer oxidation.

Unit:- II

Aromatic Carboxylic and Sulphonic Acids.

06

1. Introduction and Classification of Aromatic Carboxylic Acids.
2. Synthesis and Chemical Reactions of Following Acids.

[A] Benzoic Acid.

1. Preparations From: (a) Phenyl Cyanide, (b) Toluene.
2. Reactions of Benzoic Acids:
a) Acyl halide formation b) Reduction. C) Nitration.

[B] Anthranilic Acid:

1. Preparations From : (a) Phthalimide. b) O-nitroToluene.
2. Reactions of Anthranilic Acids:
 - a) Action of heat, b) Nitrous Acid, c) Action of acetic anhydride/acetyl chloride.

[C] Salicylic Acid:

1. Preparations From: (a) Kolbe's reaction. (b) Reimer-Tiemann reaction.
2. Reactions of Salicylic Acids:
 - a) Bromination, b) Nitration, c) Decarboxylation, d) Reaction with Zn-dust.

[D] Phthalic Acid

1. Preparations From: (a) o-xylene. (b) Naphthalene.
2. Reactions of Phthalic Acids:
 - a) Action of heat. b) Action of PCl_5 . c) Action of ethanol.

[E] Benzene Sulphonic Acid.

1. Introduction.
2. Preparation of benzene sulphonic acid from benzene with mechanism.
3. Chemical Reactions of benzene sulphonic acid,
 - a) Salt formation b) formation of sulphonyl chloride,
 - c) formation of sulphonic ester and amide.
4. Replacement of sulphonic group by:
 - a) Hydroxyl group. b) cyano group, c) Hydrogen atom d) NH_2 -group.

Unit:- III**[A] Introduction to Organometallic Compounds.****09****1. Organomagnesium Compounds:**

1. Preparation of Methyl magnesium bromide.
2. Synthetic applications of Methyl magnesium bromide (CH_3MgBr) : Hydrocarbons, Ethanol, 2-propanol, 2-methyl-2-propanol, Ethanal, 2-propanone, ethanoic acid, Methanamine, Acetonitrile, Ethyl ethanoate..

2. Organo Lithium Compounds.

1. Preparation of methyl lithium from methyl iodide.
2. Synthetic application of Methyl lithium(CH_3Li): Methane, Ethanol, 1-propanol, 2-propanol.

3. Organo Zinc Compounds:

1. Preparation of diethyl zinc from ethyl iodide.
2. Synthetic application of diethyl zinc [$(\text{C}_2\text{H}_5)_2\text{Zn}$]: Methane, 2-propanone, Ethanol, 2-propanol.

[B] Organic Synthesis via Enolates.

1. Introduction, Acidity of alpha hydrogen.
2. Synthesis of Ethyl Acetoacetate. [Claisen Condensation Reaction with Mechanism]
3. Ketol-Enol Tautomerism of ethyl acetoacetate.
4. Synthetic Applications of Ethyl Acetoacetate.
5. Synthesis of Enamines, Acetylation and Alkylation of Enamines.

Unit:- IV

Oils, Fats, Soaps and Detergents

05.

A. Introduction, chemical nature, General physical properties and

1. General chemical properties.

- a) Hydrolysis
- b) hydrogenation
- c) hydrogenolysis
- d) trans-esterification
- e) Rancidity and autoxidation.
- f) Analysis of Fats and Oils.
 - i) Saponification number (Saponification value)
 - ii) Iodine number (Iodine value)
 - iii) Acid value
 - iv) Reichert Meissl value (R. M. value)

B] SOAPS

1. Introduction,
2. Manufacture of soaps by
 - i) Kettles process
 - ii) Hydrolyser process.
 - iii) Cleansing action of soap.

C] Synthetic Detergents.

1. Introduction,
2. Synthetic detergent classification,
 - i) Anionic detergent
 - ii) Cationic detergents
 - iii) Non ionic detergents.
3. Synthetic detergent versus soaps, Soft versus Hard detergents.

Part II (Inorganic Chemistry)

Unit:-V

[A] Theory of Qualitative Analysis

09

- a) Introduction: Definition of qualitative analysis, macro, micro and semimicro qualitative analysis, radicals, acidic and basic radicals.
- b) Role of sodium carbonate extract in qualitative analysis.
- c) Interfering radicals. Removal of interfering radicals such as oxalate, borate, fluoride and phosphate.
- d) Use of solubility product, common ion effect and complex ion formation in the analysis of basic radicals:
 - i) Separation of II_A and II_B, ii) Separation of II and III_B.
 - iii) Separation of III_A and III_B, iv) Separation of Zn⁺⁺ and Mn⁺⁺.
 - v) Separation of Co⁺⁺ and Ni⁺⁺ vi) Separation of Fe⁺⁺⁺ and Al⁺⁺⁺.
 - vii) Separation of Cu⁺⁺ and Cd⁺⁺.
- e) Use of organic reagents in qualitative analysis.
 - i) 8-Hydroxy quinoline for aluminium ii) α -Benzoinoxime for copper.
 - iii) Dimethylglyoxime for Nickel iv) 1,10-Phenanthroline for Iron.
 - v) α -Nitroso- β -naphthol for cobalt.

[B] Non-aqueous Solvents

06

- a) Introduction
- b) Classification of Solvents.
- c) Water as a universal solvent
- b) Physical properties of solvent: Dipole moment, Dielectric Constant, Trouton's Constant, Viscosity. Melting Point & Boiling Point.
- c) Reactions in liquid ammonia as solvent : Auto ionization, Acid-Base, Ammonolysis, Precipitation and ammonation.
- d) Reactions in liquid SO₂ :
Autoionization, Acid-Base, Solvolysis, Precipitation and Solvation.

Reference books:

1. Organic chemistry by Morrison and Boyd, Print ice hall.
2. Organic chemistry by L.G. Wade. Print ice hall.
3. Organic chemistry Vol. I, II, III by S. M. Mukharji, S. P. Sing and R. P. Kapoor
4. Fundamental of organic chemistr y b y Solomon, John willey
5. A Text book of organic chemistry by Bahl and Bahl.
6. A Text book of organic chemistry by P. L. Soni.
7. A Text book of organic chemistry by Tewari Mehrotra.
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B. Sc. Second Year: Semester-III
Paper-VII, (CCC III, Section B)
Physical & Inorganic Chemistry

Credits:02

Periods: 45

Part I (Physical Chemistry)

Unit :- I **10.**

Atomic Structure and Wave Mechanics

- 1.1 Planck's quantum theory.
- 1.2 Photoelectric effect, explanation on the basis of quantum theory.
- 1.3 Compton Effect: Statement, explanation.
- 1.4 de-Broglie hypothesis; derivation of de-Broglie equation, explanation.
- 1.5 Davisson-Germer experiment.
- 1.6 Heisenberg's uncertainty principle: Statement, explanation.
- 1.7 Schrodinger wave equation; Derivation in time independent form and Laplacian operator form, Physical significance of wave function (Ψ) and (Ψ_2).
- 1.8 Numerical on photoelectric effect, de-Broglie equation, Heisenberg's uncertainty principle.

Unit :- II **05**

Thermodynamics:

- 2.1 Introduction to First law of thermodynamics.
- 2.2 Joule's law. Joule-Thomson effect. Joule-Thomson coefficient and inversion temperature.
- 2.3 Need for second law thermodynamics, different statements of second law of thermodynamics.
- 2.4 Carnot's cycle and its efficiency. Carnot's theorem.
- 2.5 Numerical on efficiency of Carnot cycle.

Unit:- III

Concept of entropy: **06**

- 3.1 Introduction, Definition, Mathematical Expression, Unit.
- 3.2 Entropy as a state function.
- 3.3 Entropy change in Physical transformations: (i) Fusion of a solid. (ii) Vaporization of a liquid. (iii) Transition from one crystalline form to another.

- 3.4 Entropy changes for an ideal gas as a function of V and T and as a function of P and T.
- 3.5 Entropy changes of an ideal gas in different processes.
- 3.6 Physical significance of entropy.
- 3.7 Numerical on entropy change in physical transformations and entropy changes of an ideal gas in different processes.

Unit:- IV

09.

Phase equilibrium

- 4.1 Phase rule, Statement and explanation of the terms-phase, component and degree of freedom.
- 4.2 Phase equilibria of one component system: Water system, Sulphur system and CO₂ system.
- 4.3 Phase equilibria of two component system: Pb-Ag system, desilverisation of lead, KI-H₂O system.
- 4.4 Partially miscible liquids: Critical solution temperature, upper critical solution temperature, lowers critical solution temperature. Phenol-water, triethylamine-water, nicotine-water systems. Effect of impurities on critical solution temperature.

Part II (Inorganic Chemistry)

Unit:- V

[A] Nuclear Chemistry:

10

- a) Introduction, composition of nucleus and nuclear size.
- b) Classification of nuclides: Isotopes, isobars, isotones, isotones and isomers.
- c) Nuclear Stability: Odd and even number of protons and neutrons, N/Z ratio, magic number, packing fractions (Numerical), mass defect (Numerical), nuclear binding energy (Numerical) and mean nuclear binding energy (Numerical).
- d) Release of nuclear energy:
- i) Nuclear fission reaction, nuclear fuels and plutonium bomb.
- ii) Nuclear fusion reaction, the energy of sun, hydrogen bomb.
- e) Definition of radioactivity, characteristics of α , β , and γ particles, group displacement law.
- f) Application of radioisotopes in medicine, agriculture, industry, and carbon dating.

[B] Theory of Gravimetric Analysis

05

- a) Introduction , definition of gravimetric analysis.
- b) Steps involved in gravimetric analysis
- c) Precipitation, Conditions for Precipitation
- d) types of precipitates.
- e) Factors affecting precipitation such as temperature and pH, Solubility and Solubility Product.
- f) Different Steps involved in gravimetric analysis:
 - i) Precipitation, ii) Digestion , iii) Filtration & Washing, iv) Drying,v) Ignition & Inceneration, vi) Weighing.

Reference Books:

1. Physical Chemistry by G. M. Barrow (Tata Mc-Graw Hill publishing Co., Ltd.)
2. Elements of Physical Chemistry by S. Glasstone & D. Lewis (D.van nostrand co. Inc.)
3. Physical Chemistry by W. J. Moore (Orient Longman).
4. Principles of Physical Chemistry by S. H. Maron and C. F. Prutton. (Oxford & IBH Publishing Co.)
5. University General Chemistry by C. N. R. Rao (Mc-Millan).
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16. Advanced Physical Chemistry by Gurdeep Raj.(Goel publishing house, Meerut).
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B. Sc. Second Year: Semester-IV
Paper-VIII, (CCC IV, Section A)
Organic & Inorganic Chemistry

Credits:02

Periods: 45

Part I (Organic Chemistry)

Unit:-I

08

Stereochemistry

1. Introduction
2. Concept and Types of isomerism. (a) Structural isomerism (b) Stereo isomerism.
3. Types of structural isomerism [Chain, Position, Functional, Metamerism, Tautomerism]
4. Types of Stereoisomerism [Conformational (n-butane) and Configurational]
5. Geometrical isomerism: Cis -Trans and E and Z system of nomenclature.
6. Optical isomerism:
 - a) Concept of asymmetric carbon atom, Chiral centre.
 - b) Dextro and Laevo forms, Racemic mixture.
 - c) Element of symmetry [plane, Centre, and Axis]
 - d) Concept of Diastereoisomers.
 - e) Racemic modification. (with one example)
 - f) Resolution (Concept) (with one example)
 - g) Walden inversion. (with one example)
 - h) Relative Configuration and Absolute configuration.[D,L and R,S notations]

Unit:-II

08

Carbohydrates.

1. Introduction.
2. Classification and Nomenclature
3. Reactions of Monosaccharide's (Glucose and Fructose)
 - a) Addition reactions b) Ether formation
 - c) Reduction of glucose d) Oxidation of glucose

- e) Osazone formation with mechanism
- 4. Open and cyclic structure of glucose
- 5. Determination of ring size
- 6. Mutarotation with Mechanism.
- 7. Epimerization.
- 8. Cyclic Structure of D-glucose.(supporting evidence for six member ring)
- 9. Interconversions:
 - a) Glucose to Fructose.
 - b) Fructose to Glucose.
 - c) Glucose to Mannose.
 - d) Glucose to Arabinose (Ruff Degradation)
 - e) Arabinose to Glucose (Kiliani synthesis)
- 10. Pyranose Structure of Glucose.
- 11. Manufacturing of sucrose (sugar) from sugar cane.

Unit:-III

08

Nitrogen Containing Organic Compounds.

A] Aromatic Nitro Compounds.

- 1. Introduction, Nomenclature,
- 2. Preparation of Nitrobenzene from benzene
- 3. Physical and Chemical properties of Nitrobenzene.
- 4. Electrophilic substitution reactions.
- 5. Reductions: a) in acidic medium. b) In neutral medium.
- c) In alkaline medium. d) Electrolytic reduction.

B] Aromatic amines:

- 1) Introduction, Classification, Nomenclature,
- 2) Methods of preparations of aniline from
 - i) chlorobenzene ii) phenol
 - iii) nitrobenzene iv) from phthalimide

3) Chemical properties.

i) Diazotization reaction. ii) Action of carbon disulphide.

iii) Action of benzoyl chloride. iv) Formation of Schiff's base.

v) Carbylamine reaction. vi) Formation of p-nitroacetanilide

4. Effect of substituent (-NO₂, -OCH₃, -CH₃) on the basicity of aniline.

C] Diazomethane

1. Introduction.

2. Methods of preparations

i) From N-nitroso-N-methylurethane

ii) From nitrous oxide and methyl lithium

3. Reactions of Diazomethane

i) Action of heat ii) Reaction with mineral acid

iii) Reaction with phenol iv) Reaction with ethanol and ethanamine

v) Ring expansion (cyclopentanone to cyclohexanone)

D] Urea:

1. Synthesis of urea by a) Wohlers methods and b) From CO₂.

2. Reactions:

a) Action of heat b) Action of nitrous acid

c) Hydrolysis d) Action of thionyl chloride

e) Action of formaldehyde f) Action of hydrazine

g) Action of acetyl chloride h) Salt formation.

Unit:-IV

06

Applications of Reagents In Organic Synthesis.

A] Osmium Tetraoxide [OsO₄]

1. Introduction, Preparation

2. Reactions:

a) In the formation of Cis-1,2-diol, b) Acraldehyde to glyceraldehyde,

c) Cis- hydroxylation of maleic acid, d) 9, 10-dihydroxylation of phenanthrene.

B] Ozone. [O₃]

1. Preparation,

2. Reactions.

a) Synthesis of aldehydes and ketones,

b) Synthesis of dialdehydes and hydroxyl aldehydes,

c) In degradation of alcohols.

C] Selenium Dioxide.[SeO₂]

1. Preparations,

2. Reactions:

a) Oxidation of reactive methylene group into Carbonyl group.

b) In dehydrogenation reactions.

c) allylic hydroxylation and oxidation

D] Boron Trifluoride.[BF₃]

1. Preparation ,

2. Reactions: In the formation of: a) acids, b) esters c) diketones,

d) Nitration, e) Sulphonation, f) Rearrangement reaction.

Part II (Inorganic Chemistry)

Unit:-V

[A] Chemistry of d-Block Elements

07

a) General Characteristics of d-Block Elements.

b) Electronic Configuration of Second & Third Transition Series Elements.

c) Comparison of Second & Third Transition Series Elements with first transition series elements.

d) Compounds of i) Rhodium & Iridium ii) Palladium & Platinum iii) Silver & Gold iv) Cadmium & Mercury.

1. Lanthanides:

- a) Electronic Configuration.
- b) Lanthanide Contraction, Consequences of Lanthanide Contraction and cause of lanthanide contraction.
- c) Magnetic Properties of Lanthanides.
- d) Variation in properties of lanthanides.
- e) Comparison of Characteristics of d & f-block elements.
- f) Extraction of Lanthanides by ion exchange method.
- g) Applications of Lanthanides.

2. Actinides:

- a) Electronic Configuration.
- b) Properties of Actinides.
- c) Comparison with Lanthanides.
- d) Extraction of Uranium from Pitchblend.
- e) Physical & Chemical Properties of Uranium.
- f) Separation of Neptunium, Plutonium, Americium from Uranium.
- g) Nuclear Fuels.

Reference books:

1. Organic chemistry by Morrison and Boyd, Print ice hall.
2. Organic chemistry by L.G. Wade. Print ice hall.
3. Organic chemistry Vol. I, II, III by S. M. Mukharji, S. P. Sing and R. P. Kapoor
4. Fundamental of organic chemistr y b y Solomon, John willey
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6. A Text book of organic chemistry by P. L. Soni.
7. Synthetic Organic Chemistry, by: G. R. Chatwa
8. Organic Chemistry, Reactions, Rearrangements and Reagents, by: O. P. Agarwal
9. Reaction, Rearrangement and Reagents, by: S. N. Sanyal

10. Organic Chemistry 05th edition, by: A. K. Pine.
11. Organic Chemistry, by: Solomons Fryhle
12. A Text book of organic chemistry by Tewari Mehrotra.
13. Stereochemistr y by P. S. Kalsi. [07th edition]
14. Organic chemistry [volume-I] by I. L. Finar.
15. Principles of Inorganic Chemistry by Puri, Sharma and Kaliya.
16. Advanced inorganic chemistry by Gurudeep Raj and ChatwalAnand.
17. Advanced inorganic chemistry vol. II by Satyaprakash, Tuli, Basu and Madan.
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24. Inorganic Chemistry by A. G. Sharp.
25. Inorganic Chemistry by G. L. Miessler and D. A. Tarr.
26. Chemistry for degree students [B. Sc. II], by Dr. R.L. Madan, (S. Chand)

B. Sc. Second Year: Semester-IV

Paper-IX, (CCC IV, SectionB)

Physical & Inorganic Chemistry

Credits:02

Periods: 45

Part I (Physical Chemistry)

Unit:-I

Chemical Kinetics:

10

1.1 Introduction: Rate of reaction, Definition and units of rate constant, Factors affecting rate of reaction, Order and Molecularity of reaction.

1.2 Zero order reaction: Rate expression and Characteristics.

1.3 First order reaction: Rate expression and Characteristics.

1.4 Pseudounimolecular reactions.

1.5 Second order reaction: Derivation of rate constant for equal and unequal concentrations of the reactants. Characteristics of second order reaction.

1.6 Methods of determination of order of a reaction.

1.7 Collision theory of reaction rates.

1.8 Effect of temperature on reaction rates and Arrhenius equation.

1.9 Numericals on first order reactions, half-life method.

Unit:-II

06

Electrochemistry:

2.1 Introduction, Conduction of electricity, Types of conductors: electronic and electrolytic.

2.2 Conductance of electrolytes: Conductance, Specificresistance, Specific conductance, Equivalent conductance, Molecular conductance and their units.

2.3 Variation of specific and equivalent conductance with dilution, Equivalent conductance at infinite dilution. Effect of temperature on conductance.

2.4 Conductivity cell, Cell constant and its determination.

2.5 Strong and weak electrolyte. Arrhenius theory of electrolytic dissociation and its limitations. Debye-Huckel theory of strong electrolytes. Relaxation effect and electrophoretic effect, Debye-Huckel Onsager's equation and its verification.

2.6 Migration of ions, Transport number.

2.7 Numericals on Specific conductance, Equivalent conductance and cell constant.

Unit:-III

06

3.1 Kohlrausch's law, Applications of Kohlrausch's law:

i) Determination of equivalent conductance at infinite dilution of weak electrolytes.

ii) Determination of degree of dissociation.

iii) Determination of solubility of sparingly soluble salts.

iv) Determination of absolute ionic mobility.

v) Determination of ionic product of water.

3.2 Conductometric titrations:

(i) Strong acid against strong base. (ii) Strong acid against weak base

(iii) Weak acid against strong base. (iv) Weak acid against weak base.

(v) Precipitation titration.

3.3 Advantages of conductometric titrations.

Unit:-IV

Photochemistry:

08

3.1 Introduction to photochemistry, types of chemical reactions, difference between thermal and photochemical reactions.

3.2 Lambert-Beer Law: Light absorption by solution, molar extinction coefficient, transmittance, absorbance, optical density.

3.3 Laws of photochemistry: Grothus-Drapper law, Stark-Einstein law of photochemical equivalence.

3.4 Quantum yield, experimental determination of quantum yield. High and low quantum yield reactions. Reasons for high and low quantum yield.

3.5 Jablonski diagram with various Processes occurring in the excited state. (internal Qualitative description of Fluorescence, phosphorescence, non-radiative processes Conversion, inter- system crossing).Photosensitized reactions. Chemiluminescence.

3.6 Numericals on quantum yield.

Part II (Inorganic Chemistry)

Unit:-V

[A] Chemistry of Non-transition elements 05

a) Silicates: Definition, Basic Unit of silicate and classification on the basis of basic unit and their characteristics.

b) Zeolite: Definition, preparation, classification and applications. Ultramarine.

c) Carbide: Definition, classification, preparation, properties and structure of ionic or salt like carbides (CaC_2), Metallic carbide (TiC) and covalent carbides (SiC).

d) Fullerene: Preparation, properties, structure and applications.

[B] Chemistry of Halogen compounds 10

a) Inter-halogen compounds:

i) Definition, preparation and structure of XY , XY_3 , XY_5 , and XY_7 types of inter-halogen compounds.

ii) Pseudo-halogen: Definition, preparation and properties.

b) **Fluorocarbon:** Definition, preparation properties and uses (Teflon).

c) **Polyhalides:** definition, preparation, properties & structure of ICl_2 , & ICl_4

d) **Oxides of halogens:** Preparation, structure & uses of F_2O , Cl_2O , Cl_2O_7 , & I_2O_5 .

e) **Oxyacids of halogens:** Introduction, oxidation state, structure strength and stability. Basic properties of halogens: I^- and I^{3-} compounds and their preparation.

Reference Books:

1. Physical Chemistry by G. M. Barrow (Tata Mc-Graw Hill publishing Co., Ltd.)
2. Elements of Physical Chemistry by S. Glasstone & D. Lewis (D.van nostrand co. Inc.)
3. Physical Chemistry by W. J. Moore (Orient Longman).
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6. Physical Chemistry by R. A. Alberty (Wiley Eastern Ltd.).
7. Physical Chemistry through problems by S. K. Dogra, D. Dogra(Wiley Eastern Ltd)

8. Principles of Physical Chemistry by Puri, Sharma and Pathania (Vishal Publication)
9. Physical Chemistry by A. J. Mee. ELBS & Heinemann Educational Books Ltd.
10. Essentials of Physical Chemistry by Arun Bhal, B. S. Bahl and G. D. Tuli. (S. Chand)
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B. Sc. Second Year: Semester- III & IV

CCCP II (CCC III & IV, Section A)

Practical based on P-VI & P-VIII

Laboratory Course- Paper-X

Credits:02

Periods: 120

Note: At least sixteen experiments should be taken.

Part I (Organic Chemistry)

1. Only demonstration

i) Determination of R_f values of O, M and P-nitro aniline.

ii) Separation of benzene and water by distillation method.

2. Qualitative analysis: Identification of following organic compounds.

(Two from each of the following)

a) Acids: Benzoic acid, Phthalic acid, Salicylic acid, Cinnamic acid, o-chloro benzoic acid.

b) Base: Aniline, P-nitroaniline, m-nitroaniline, resorcinol, P-toluidine.

c) Phenols: Phenol, α -naphthol, β -naphthol, p-cresol, m-nitrophenol.

d) Neutral: Naphthalene, Anthracene, Acetanilide, m-dinitrobenzene, Nitrobenzene.

3. Quantitative analysis: (estimation) any four.

a) Estimation of glycine by Sorenson's method.

b) Estimation of phenol by bromination method.

c) Estimation of glucose by iodination method.

d) Estimation of unsaturation (cinnamic acid).

e) Estimation of saponification value of an oil.

f) Estimation of iodine value of an oil.

g) Estimation of vitamin-C

h) Estimation of formaldehyde.

Part II (Inorganic Chemistry)

1 Determine volumetrically the amounts of sodium carbonate and sodium hydroxide present together in the given solution provided 0.1 N HCl solution

2 Determine the percentage of CaCO_3 in the chalk sample, provided 1 N HCl and 0.1N NaOH

- 3 Estimate the strength of the given sample of KMnO_4 Solution in g/lit. Prepare a standard solution of N/10 Mohr's salt or N/10 Sodium Oxalate solution
- 4 Estimate volumetrically the strength of Ferrous and ferric ion in the given solution provided N/10 KMnO_4 Solution
- 5 Determine the strength in g/lit of each of HCl and HNO_3 present together in the given solution. Provided N/10 NaOH and N/20 AgNO_3
- 6 Determination of Nickel using murexide as an indicator (Direct method)
- 7 Prepare standard solution of Zn ion standardize the give EDTA solution and estimate the amount of unknown Zn ion concentration
- 8 To determine the total, permanent and temporary hardness of water by complexometric method using EDTA.

B. Sc. Second Year: Semester- III & IV

CCCP III (CCC III & IV, Section B)

Practical based on P-VII & P-IX

Laboratory Course- Paper-XI

Credits:02

Periods: 120

Note: At least sixteen experiments should be taken.

Part I (Physical Chemistry)

Instrumental :

1. Determine the normality and strength of strong acid (HCl / H₂SO₄ / HNO₃) onductometrically using standard solution of strong base (NaOH / KOH).
2. Determine the normality and strength of weak acid (CH₃COOH / HCOOH) conductometrically using standard solution of strong base (NaOH / KOH).
3. To determine the solubility of a sparingly soluble salts (BaSO₄ / PbSO₄ / AgCl) conductometrically at room temperature.
4. Determine the normality and strength of strong acid (HCl / H₂SO₄ / HNO₃) potentiometrically using standard solution of strong base (NaOH / KOH).
5. Determine redox potential of Fe³⁺ / Fe²⁺ / or Sn⁴⁺/Sn³⁺ or Ce⁴⁺ / Ce³⁺ system by titrating it with standard K₂Cr₂O₇ / KMnO₄ potentiometrically
6. Verification of Lamberts-Beer's law using KMnO₄ / NiSO₄ / K₂Cr₂O₇ / CuSO₄ colorimetrically and determine concentration of unknown solution.
7. Determine the concentration of Cu⁺⁺ ion in given solution, titrating it against std. EDTA solution by colorimetric measurement.
8. To determine the hydrolysis constant of anilinehydrochloride by pH measurement.

Non-Instrumental

1. To study the effect of addition of electrolyte (KCl / NaCl) on solubility of weak organic acid at room temperature.
2. Determine energy of activation of reaction between KI and K₂S₂O₈.
3. Determine the parachor of p-dichloro benzene by stalgmometer method.

4. To determine the composition of the given mixture consisting of two miscible liquids, A & B by viscosity measurement.
5. Determine partition coefficient of iodine between carbon tetrachloride and water.
6. Determine the solubility of benzoic acid in water at different temperatures and hence its heat of solution.
7. To study the effect of solute (NaCl / Succinic acid) on the CST of phenol- water system and hence determine amount of solute in given sample of phenol – water composition.
8. To find out the enthalpy of neutralization of weak acid/weak base against strong base/strong acid and determine the enthalpy of ionization of weak acid/ weak base.
9. To study the kinetics of dissolution of magnesium metal in dil.HCl
10. To study the kinetics of decomposition of sodium thiosulphate by a mineral acid

Part II (Inorganic Chemistry)

Separation of binary mixtures and estimation of any one by volumetric method:

1. Cu ⁺⁺⁺ + Zn ⁺⁺
2. Ba ⁺⁺⁺ + Ca⁺⁺
3. Mn ⁺⁺⁺ + Zn⁺⁺
4. Fe ⁺⁺⁺ + Al ⁺⁺⁺

Reference books:

- 1 Text book on practical Chemistry, by K. S. Mukherjee
- 2 Laboratory Manual of Organic chemistry Raj. K. Bansal.
- 3 Advanced practical organic chemistry, by: Vishnoi.
- 4 Experimental organic chemistry by: Sing.
- 5 Experimental Physical Chemistry by A. Findlay. Longman.
- 6 Advanced Practical Physical Chemistry by J.B. Yadav. (Goel Publishing house, Meerut).

- 7 Experiments in Physical Chemistry by R. C. Das and B. Behra. Tata Mc Graw Hill.
- 8 Advanced experimental Chemistry Vol. I. Physical by J. N. Gurtu and R. Kapoor. S. Chand & Co.
- 9 Experiments in Physical Chemistry by J. C. Ghosh, Bharati Bhavan.
- 10 Practical book of Physical Chemistry – by Nadkarni Kothari & Lawande. Bombay Popular Prakashan.
- 12 Systematic Experimental Physical Chemistry – by S. W. Rajbhoj, Chondhekar. Anjali Publication.
- 13 Practical Physical Chemistry – by B. D. Khosala & V. C. Garg. R. Chand & Sons.
- 14 Experiments in Chemistry by D. V. Jagirdar.
- 15 Practical Chemistry, Physical – Inorganic – Organic and Viva – voce by Balwant Rai Satija. Allied Publishers Pvt. Ltd.
- 16 College Practical Chemistry by H. N. Patel, S. R. Jakali, H. P. Subhedar, Miss. S. P. Turakhia. Himalaya Publishing House, Mumbai.
- 17 College Practical Chemistry by Patel, Jakali, Mohandas, Israney, Turakhia. Himalaya Publishing Housing, Mumbai.
- 18 Experimental Physical Chemistry by A. Findlay. Longman.
- 19 Practical chemistry (For B.Sc.I, II, III year) by O. P. Pandey, D.N. Bajpai, S. Giri, S. Chand & Co.
- 20 University practical chemistry by P. C. Kamboj , Vishal publishing co.
- 21 Advanced Practical Inorganic Chemistry by Gurdeep Raj. (Goel Publishing house, Meerut).
- 22 Advanced Practical Organic Chemistry by Dr O. P. Agarwal. (Goel Publishing house, Meerut).

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course Structure
B. Sc. second year (Semester- III)
Semester Pattern effective from June -2017

Chemistry

Skill Enhancement Course SECC-I (A)

Food Processing And Food Adulteration: 02 Credits

Unit I Food Processing:

15 periods

- 1.1) Introduction, common food processing techniques : mincing, macerating, cooking, baking, boiling blanching, double steaming, frying, roasting.
- 1.2) Food processing an Indian prospective : Policy initiatives, Opportunities, Indian food processing industry, Research methodology, Analysis methods.

Unit II Food Preservation :

20 periods

- 1.3) Basic principles of food preservation- drying ,canning, pickling smoking packing.
- 1.4) Food preserving through Irradiation : Food irradiation, Radurization, Radicidation, Radappertization . Technologies : electron beam irradiation, Gamma radiation , x-ray radiation
- 1.5) Modern methods of food Preservation : Freeze drying, sodium benzoate , mechanism of food preservation, saccharin, saccharin and cancer.
- 1.6) Role preservatives in food processing : Phenylphenol, benzethonium chloride , calcium benzoate, sodium benzoate, calcium tartrate, dimethyl dicarbonate, ethylparaben, glycolic acid, hexamine.

Unit III Food adulteration:

10 periods

- 1.7) Detection of common food adulterants in : Spices, grains, oils, milk and milk products , food colors, tea , coffee.

Reference books

- 1) Food Preservation ---M.K.Singh (discovery publishing house Daryagang ,New delhi)
- 2) Food Science ----Shalini Pathak (Sonali Publications, Daryagang ,New delhi)
- 3) Food Processing --- M.K.Singh (discovery publishing house Daryagang ,New delhi)
- 4) Hand book of analysis and quality control for fruit and vegetable products : ----
S.Ranganna II edition
- 5) Milk and milk products ---- S.Mahindra –APH Publishing house Daryagang ,New delhi
- 6) Food Microbiology -----W.C.Frazier/D.C.Westhoff –Tata mcgraw hill
- 7) Food Chemistry -----Shalini Saxena --Raga publication Daryagang ,New delhi
- 8) Rapid detection of food adulterants and contaminants ----Shyam Zha
- 9) Handbook of adulteration and safety --- Sumeet Malik

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course Structure
B. Sc. second year (Semester- III)
Semester Pattern effective from June -2017

Chemistry

Skill Enhancement Course SECC-II (B)

PREPARATION OF SOLUTION AND ITS STANDARDIZATION

Unit I.	Introduction:	10 periods
1.1	Solute, solvent, solution, types of solutions, Homogeneous solution, Heterogeneous solution.	
1.2	Concentration of solution, dilute solution, standard solution.	
Unit II.	Ways of expressing the concentration of solutions and their preparation.	10 periods
1.3	Percentage by mass (% w/W) Percentage by volume (% v/V) Mole fraction (x) Molarity (M) Molality (m) Normality (N) Parts per million (Ppm) Parts per thousand (Ppt)	
Unit III.	Preparation of standard solutions	13 periods
1.4	Preparation of any standard solutions from stock solution.	
1.5	Numerical. (a) Molarity, Molality, Normality, Mole fraction, ppm, ppt. (b) Determination of concentration of mixing different concentrations and volume of same solution. (c) Determination of compositions of mixture in terms of mole fraction.	
Unit IV.	Standardisation of solutions	12 periods
1.6	Standardisation of KMnO_4 solution. Standardisation of HCl solution. Standardisation of NaOH solution. Standardisation of EDTA solution. Standardisation of $\text{K}_2\text{Cr}_2\text{O}_7$ solution.	

Reference books

1. Advanced practical of physical chemistry,
Gurudeep Raj – Goel Publishing, House.
2. Advanced practical of inorganic chemistry
Gurudeep Raj – Goel Publishing, House.
3. Systematic Experimental physical chemistry.
S.W. Rajbhoj, Dr. T.K. Chondhekar,
Anjali Publication Aurangabad.
4. Essentials of physical chemistry,
Arun Bahl, B.S. Bahl, G.D. Tuli(S.chand)
5. Practical chemistry by Dr. O.P. Pandey
D.N. Bajpai, Dr. S. Giri (S.Chand)
6. Advanced practical physical chemistry,
J.B. Yadav, Goel Publishing, House.
7. Advanced practical inorganic chemistry,
O.P. Agrawal.
8. A Text book of practical chemistry for B.Sc,
V.V. Nadkarny, A.N. Kothare and Y.V. Lawande.



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
CHOICE BASED CREDIT SYSTEM (CBCS)

SEMESTER PATTERN

Faculty of Science & Technology

Under Graduate (UG) Programmes

COMPUTER SCIENCE (OPTIONAL) - CURRICULUM

(W. E. F. Academic Year 2018-2019)

CLASS: B. Sc. Third Year

OUTLINE

Semester pattern	Section and course code	Paper No. & Title	Periods /Week	Marks for		Total Credits (Marks)
				External Marks: ESE (Theory)	Internal: CA & SECCS	
Semester-V	Section-A DECC	Theory Paper No.XII Software Engineering	03	40	10	Credits: 02 (Marks:50)
	Section-B DECC (Elective)	Theory Paper No. XIII[A] Visual Programming OR Theory Paper No. XIII[B] Cloud Computing	03	40	10	Credits: 02 (Marks:50)
	Section-A SECCS-III	Skill Enhancement Course-III: Data Mining OR Multimedia and Applications	03	25	25	Credits: 02 (Marks:50)
Semester-VI	Section-A DECC	Theory Paper-XIV Relational Database Management Systems & PL/SQL	03	40	10	Credits: 02 (Marks:50)
	Section-B DECC (Elective)	Theory Paper No. XV[A] Computer System Security OR Theory Paper No. XV[B] E-Commerce	03	40	10	Credits: 02 (Marks:50)
	Section-B SECCS-IV	Skill Enhancement Course-IV: Office Automation Tools OR Android Programming	03	25	25	Credits: 02 (Marks:50)
Practical	Section-A CCCSP	Paper No. XVI Laboratory Course Work-IV: Practical based on theory papers-XII & XIII	04	50	--	Credits: 02 (Marks:50)
	Section-B CCCSP	Paper No. XVII Laboratory Course Work-V: Project Work	04	50	NA	Credits: 02 (Marks:50)
	ESE Marks:260	SECCS+CA Marks:100+40=140	Credits:16 Marks:400	NA	NA	NA
	ESE Marks:260	SECCS+CA Marks:100+40=140	Credits:16 Marks:400	NA	NA	NA
Total				ESE Marks:260	SECCS+CA Marks:100+40=140	Credits:16 Marks:400

DECC: Discipline Elective Core Course, CCCSP: Core Course Computer Science Practical, SECCS- Skill Enhancement Course Computer Science, ESE: End Semester Examination, CA: Continuous Assessment

Note: A practical group / batch for practical papers is recommended to have 10-15 students as per the UGC Guidelines under CBCS (Choice Based Credit System) – May 2015

Outline and Salient Feature:

B. Sc. Third year Computer Science syllabus is crafted to serve the need of Choice Based Credit System. This is a new perspective for academic content delivery where students can pick electives as per their desire. This syllabi structure is reframed with aim to familiarize and practically train students in the field of Computer Science. The course structure is specifically bringing discipline elective (DECC) and skilled enhanced courses together there by providing additional domain knowledge in the field. Some DECC courses like Software Engineering; Visual Programming and Cloud Computing are concerned with basics of software developments and essential things to undertake professional software project management. Through a wide range of electives, students keep pace with the latest trends in computing technology. Furthermore, the curriculum devotes sufficient practical experience to help students integrate and practise principles and techniques learned in the classroom and develop the necessary maturity and soft skills essential for a successful career in information technology.

Utility:

1. A sound technical foundation in computer science and the ability to creatively apply computer and related technologies to practical problems
2. Knowledge in specialized areas with awareness of multi-disciplinary issues,
3. Apply relevant logic, analytics, mathematics and engineering methods to computing;
4. Use computer programming for problem solving
5. Identify problems, analyze requirements, formulate design and implement solutions that meet realistic constraints, such as costs, operational, social, cultural, ethical, health and safety by conversancy with software engineering methods and tools for developing quality software solutions;
6. Develop projects effectively and independently, apply specialized knowledge in selected area(s) of Computer Science;

Prerequisite:

The course is offered for a student registered for third year of undergraduate programme in Computer Science, under the faculty of Science and Technology. The prerequisite includes S.Y in concerned program along with good knowledge of software and hardware.

Paper No. XII

Software Engineering

Silent Features: Software engineering is art of software designing. It aims to prepare detailed plans and designs as per customer's demands, carry out testing, develop intuitive user interfaces, and integrate all these activities into a system.

Learning Objectives:

- Understand Software Engineering Process.
- Understand Requirements and components of Software Engineering.
- Understand software design and software testing fundamentals.

Utility of the course: Confidence of becoming a Software developer in order to get placement as well as in research activities

Prerequisite: Knowledge of Software

Unit 01: The Nature of Software & Software Engineering

The Nature of Software, The Changing Nature of Software, Defining the Discipline, Software engineering process, Software engineering practice, Software Myths

Unit 02: Software Process Structure & Models

A Generic process model, defining a framework activity, Process patterns, Process assessment & improvement, Prescriptive process models, Personal & team process models

Unit 03: Agility development & Human Aspects

Introduction to Agility, Agility & Cost of Change, Agility principles, Extreme programming, Characteristics of Software engineer, Psychology of Software engineering, Software team structures.

Unit 04: Understanding Requirements & Design Concepts

Requirement Engineering ,Building the analysis model, Requirement Analysis, Design within the context of software engineering, The design process, Design model, Software Architecture, Element of quality assurance, Software testing fundamentals

Reference Books:

1. Software Engineering A practitioner's approach By Rogers S. Pressman, 8th Ed.(McGraw Hill)
2. Software Engineering A practitioner's approach By Rogers S. Pressman, 7th Ed.(McGraw Hill)
3. Software Engineering Principles and practices By Waman S. Jawadekar (Tata McGraw Hill)

Paper No. XIII [A]

Visual Programming

Silent Features: Visual Basics is a Graphical User Interface language. We can design various forms and reports by drag and drop models. It is very convenient platform of modern software designing.

Learning Objectives:

- To learn Graphical User Interface Language.
- To develop an application using GUI Language.
- Implement VB programs to solve simple problems.

Utility of the course: Confidence of becoming a Software developer in order to get placement as well as in research activities

Prerequisite: Knowledge of programming

Unit 01: Getting Started with VB

The IDE, The Elements of user interface, Designing user interface, Programming an Application Visual Development and Event Driven Programming.

Unit 02: Visual Basic The language

Variable, Constants, operators, data types, arrays, collections, Procedures, control flow & loop statements.

Unit 03: Working with forms

Form types, Appearance of forms, Form properties, Designing menu structure, Building dynamic forms at run time, Introduction to MDI forms.

Unit 04: Basic Active X controls

Command button, control-properties, Text Box control- properties, List Box & Combo Box control - properties, combo Box control-properties, Scroll Bar control-properties, Slider control-properties, Understanding Visual data manager.

Reference Books:

1. Mastering Visual Basic 6 by Evangelos Perroutos (BPB Publications)
2. Gary Cornell - Visual Basic 6 from the Ground up - Tata McGraw Hill
3. Noel Jerke - Visual Basic 6 (The Complete Reference) - Tata McGraw Hill

Paper No. XIII [B]

Cloud Computing

Silent Features: It is most demanding area in IT industry. Every organization now days, trying to migrate to cloud computing from different perspectives. It is associated with architectural modelling and service providing. Other areas like resource pooling, cost economics, elasticity of organisation also use clouds. Thus it has become extremely important to understand the key defining features of cloud computing.

Learning Objectives:

- To Study basics of cloud computing, and comprehend the terminology, tools and technologies associated with today's top cloud platforms.
- To provide the programmer's perspective of working of Cloud Computing.
- Implement Simple Cloud programs to solve simple problems.

Utility of the course: Awareness of existing demanding trends for Clouds and Virtualizations in the IT industry in order to get placement as well as in research

Prerequisite: Knowledge about Computer Hardware and Networking.

Unit 01: Enterprise Computing: A Retrospective

Introduction, Mainframe architecture, Client-server architecture, 3-tier architectures with TP monitors

Unit 02: The Internet as a Platform

Internet technology and web-enabled applications, Web application servers, Internet of services

Unit 03: Software as a Service & Cloud Computing

Emergence of Software as a Service (SaaS), Successful SaaS architectures, Dev 2.0 platforms, Cloud computing, Dev 2.0 in the cloud for enterprises

Unit 04: Cloud Computing Platforms

Infrastructure as a service (IaaS): Amazon EC2, Platform as a service (PaaS): Google App Engine, Microsoft Azure, Introduction to Web Services, AJAX & Mashups: user interface services

Reference Books:

1. Enterprise Cloud Computing: Technology, Architecture, Application By Gautam Shroff
2. Cloud Computing: A Practical Approach by Anthony T. Velte Toby J. Velte publication McGraw Hill

Skill Enhancement Course-III (SECCS-III)

Data Mining

Silent Features: Data mining is basically concerned with the analysis of data using software techniques. Data mining is the process of detecting hidden facts and interrelations in large data which otherwise invisible directly.

Objectives:

- To create awareness about self-employment and motivate the students to go for self-employment by becoming Data Analytics.
- To familiarize the students to the practical world of business data processing and decision making.

Utility of the course: Awareness of existing demanding trends in IT industry in order to get placement as well as in research.

Prerequisite: Knowledge of database management system is essential.

Unit 01: Introduction

Introduction: Data mining as a subject, what is Data mining, Definition, DBMS Vs Data mining, DM techniques, Issues and challenges in DM, DM application areas?

Unit 02: Data warehousing

Data warehousing: Introduction, Definition, OLAP operation, warehouse schema, Data warehouse architecture, metadata, data ware house usage

Unit 03: Data pre-processing

Data pre-processing, Data cleaning, Data integration, Data transformation, Data reduction.

Unit 04: An application

Understanding basic techniques in Classification, Prediction, Clustering and Association Rules

Reference Books:

1. Data mining Techniques by Arun K Pujari.
2. Data mining concepts and techniques 2nded. By Jawei Han & Micheline Kamber.
3. Data mining- Introductory and Advanced Topics, Margaret H Dunham, Pearson Education

Skill Enhancement Course-III (SECCS-III)

Multimedia and Applications

Silent Features: Multimedia is combination of text, graphics, sound, animation, and video that is delivered interactively to the user by electronic or digitally manipulated means. Animation is one of the applications of multimedia. This course formally introduces various elements of multimedia to students. This course focuses on topics in multimedia information representation and relevant signal processing aspects, multimedia networking and communications, and multimedia standards especially on the audio, image and video compression. All of these topics are important in multimedia industries.

Objectives: The objective of this course is to provide students with a basic understanding of multimedia systems. With such background equipment, students would be able to evaluate more advanced or future multimedia systems. This course will also stimulate students' interest in the course and further motivate them towards developing their career in the area of multimedia and internet applications.

Utility of the course: Develop projects effectively and independently, apply specialized knowledge in selected area(s) of Computer Science

Prerequisite: Knowledge of software is essential.

Unit 01: Introduction to multimedia

Introduction to multimedia, elements of multimedia, multimedia and hypermedia, characteristics of multimedia, hardware and software requirement, uses of multimedia, WWW, multimedia software tools.

Unit 02: Text

Text: Introduction, types of text, Unicode standard, insertion of text, text compression, text file formats, image file format (bmp, jpg, png).

Unit 03: Introduction to graphics

Introduction to graphics, advantages and uses of graphics, Audio-introduction, Components of audio system, digital audio processing, and Audio file formats.

Unit 04: Video-introduction

Video-introduction, Motion Video, Analog Video Camera, Digital Video, Digital Video Processing, Storage formats, video file format.

Reference Books:

1. Principles of multimedia 2nd edition by Ranjan Parekh, Tata McGraw-Hill
2. Fundamentals of multimedia by Ze-Nian Li and mark S. Drew
3. Introduction to Multimedia and its Application by Ramesh Jain

Laboratory Course Work- IV

Paper No. XVI

Practical Based on theory papers – XII & XIII

Objective: Give hands on training to the students and make them acquainted with various Real time Applications implemented currently in the Industry.

- At least 20 practical sessions based on paper no XII and XIII.

Paper No. XIV

Relational Database Management Systems & PL/SQL

Silent Features: The Relational model is a fundamental DBMS model. RDBMS alone can give good placement to students in IT industry. RDBMS comes in the form of a package. We simply need to learn “how to use and manage it”. There is huge scope to RDBMS. The RDBMS is critical whenever you are managing large amounts of data. Virtually RDBMS comes in picture anywhere where large amounts of complex data are generated or analyzed like Banks, Government Records/Depositories, etc.

Learning Objectives:

- To learn Relational Database Management system and database languages.
- To learn Relational Algebra and Calculus.
- To study Integrity Constraints and PL/SQL
- To develop an application using PL/SQL.

Utility of the course: To get a good job in DBMS, students must have good knowledge of RDBMS, any 4 GL, Networking Concepts, Operating System Concepts and Web related issues. The ORACLE / MAINFRAME are the popular DBMS technologies students should learn and master. The students are also encouraged to appear for OCP / OCA – DBA certification examinations.

Prerequisite: Knowledge of DBMS

Unit 01: Introduction

Introduction to DBMS, Applications of DBMS, Data Models, Database Architecture, Database Users & Administrators, Entity, Attributes & Entity Set, Database Languages, DDL,DML,DCL.

Unit 02: Relational Algebra and Calculus:

Introduction to Selection, Projection, Union, and Joins, introduction to SQL, Basic SQL Query and Examples of SQL Queries: select, where, from, Introduction to views, Aggregate Operators Group by & Order by Clause.

Unit 03: Integrity Constraints

Introduction, Domain Constraint, Primary Key, Unique Key, Foreign Key

Unit 04: Introduction to PL/SQL

Introduction, Architecture of PL/SQL, Data types, operators, Decision making and looping statements, Simple PL/SQL programs, Introduction to Triggers.

Reference Books:

1. SQL, PL/SQL the programming language of ORACLE 4th Edition, Ivan Bayross
2. An Introduction to Database Systems, Bipin C Desai , Galgotia Publication

Paper No. XV [A]
Computer System Security

Silent Features: Computer security has become a major concern for all users and manufacturers around the world. The security deals with procedures and algorithms to avoid attacks or to bring down the attacks. Knowledge of computer security is extreme need of time.

Learning Objectives:

- The Course shall introduce the Computer System Security Concepts and its use in the Information Technology industry.
- It also elaborates on various types of attacks and their mitigation.

Utility of the course: Awareness of existing demanding trends in IT industry in order to get placement as well as in research

Prerequisite: Knowledge of Networking is essentials.

Unit 01: Security Polices, Standards & Guidelines

Different Types of polices standards & guidelines, Common Elements, Policy Standards & Guide development, Policy Creation, Regulatory Considerations.

Unit 02: Security Attacks, Services & Mechanisms

Security Attacks, Services & Mechanisms, Security Services, A model for network security.

Unit 03: Conventional Encryption

Conventional Encryption Techniques, Steganography, Classical Encryption techniques.

Unit 04: Intruders, Viruses, Worms & Firewall

Intruders, Viruses & Related Threats, Introduction to Firewalls, Firewall design principles, Trusted Systems, Introduction to Antivirus.

References Books:

1. Security Architecture Design, Deployment & Operations by Cistopher M king, Curtis E. Dalton, T. Ertem Osmanoglu
2. Cryptography & Network Security Principles & Practice (Second Edition)

Paper No. XV [B]

E-Commerce

Silent Features: E-commerce is a new revolution in the traditional market place where people buy from internet. Online purchase from Amazon, Snapdeal, Flipkart, etc comes under e-commerce. This course introduces common terminology related with e-commerce and their work association.

Learning Objectives:

- To learn Electronic Commerce market place and Internet.
- Understand Electronic Data Interchange.

Utility of the course: Job opportunities in BPO, E-commerce companies, Logistics companies, E-commerce framework consultant

Prerequisite: Knowledge of Internet is essentials.

Unit 01: Electronic Commerce

Introduction, E-Commerce types, Value Added Networks, Electronic commerce over the Internet.

Unit 02: Intranet

Introduction to Intranet, Intranet services, Intranet Implementation.

Unit 03: Internet

Internet-Introduction, Internet Engineering Task Force, Internet Architecture Board, Internet Communication Protocols, Internet Search Tools: Telnet, FTP, World Wide Web. Gopher, HTTP, Concerns about Internet.

Unit 04: Electronic Data Interchange

EDI introduction, Cost & Benefits of EDI, Components of EDI Systems: EDI Standards, EDI Software's, EDI Communication Networks, EAN system, EAN/COM, Article numbering system, Bar-coding, Serial Shipping Container Code & EAN label.

References Books:

1. E-commerce (The cutting Edge of Business) by Kamlesh K. bajaj and Debjani Nag. Ist & IInd Edition (Tata McGraw Hill publication.)

Skill Enhancement Course-IV (SECCS-IV)

Office Automation Tools

Silent Features: Office automation refers to the integration of office functions usually related to managing information. Now days all offices have been computerised. This course would enable the students in crafting professional word documents; excel spread sheets, power point presentations using the Microsoft suite of office tools.

Objectives:

- Seek Jobs in emerging BPO/IT Support Sector.
- To familiarize the students in preparation of documents and presentations with office automation tools. Broadly, b learning the course, the students will be able to perform documentation , to perform accounting operations and to perform presentation skills

Utility of the course: Awareness of existing demanding trends in IT industry in order to get placement as well as in research.

Prerequisite: Knowledge of basic computer software is essential.

Unit 01: Introduction to MS Office

Introduction to MS Office, Characteristics of office automation system, Goals of office automation.

Unit 02: Introduction to MS Word

Introduction to MS Word, Opening screen of word, Creating document, Typing text, Formatting text, Editing text, Line Spacing, Borders and shading, Inserting headers and footers, Creating tables, inserting graphics, Drawing objects.

Unit 03: Introduction to MS Excel

MS Excel, Opening screen of Excel, Functions in excel, Creating worksheets, Printing Worksheets, Creating and printing charts.

Unit 04: Introduction to PowerPoint

PowerPoint Basic Terminology, Creating presentations, Auto content wizard, Using blank presentation option, Using design template option, Adding slides, Deleting slides, Importing images, drawing in PowerPoint, numbering a slide, saving presentation, printing presentation.

Reference Books:

1. PC Software Made Simple by R.K Taxali
2. Office 2010 course complete book, Prof. Satish Jain, Kratika, M.Geetha, BPB Publication

Skill Enhancement Course-IV (SECCS-IV)

Android Programming

Silent Features: Android is a powerful Operating System supporting a large number of applications in Smart Phones. Android programming course teaches students how to develop applications for the Android operating system. This course is designed for students who are new to programming, and want to learn how to develop Android apps. They will learn how to create an Android project along with Android architecture and the key principles underlying its design.

Objectives:

- This course shall build a platform for students to start their own enterprise
- To gain an understanding of the processes that are involved in an Android developed application
- To become familiar with Android development tools and user interface.
- Ability to build two simple apps that you can share with your friends

Utility of the course:

- Awareness of existing demanding trends in IT industry in order to get placement & research.
- Understand the Android OS architecture.
- Install and use appropriate tools for Android development, including IDE, device emulator, and profiling tools.
- Understand the Android application architecture, including the roles of the task stack, activities, & services.
- Build user interfaces with fragments, views, form widgets, text input, lists, tables, and more.

Prerequisite: Basic of Operating System covered last year semester.

Unit 01: Introduction

History of Android, Introduction to Android Operating System, Android Development tools, Android Architecture.

Unit 02: Overview of Object Oriented Programming Using Java

OOPs Concepts: Inheritance, Polymorphism, Interfaces, Abstract Class, Threads, Overloading and Overriding, Java Virtual Machine.

Unit 03: Development Tools

Installing Virtual Machine for Android Ice-cream Sandwich/Jellybean, configuring the installed tools, creating a android project- Hello word, run on emulator, Deploy it on USB-connected android device.

Unit 04: User Interface Design

Form widgets, Text fields, Layouts, Button control, toggle buttons, spinners, Images, Menu and dialog.

Reference Books:

1. Android application development for java programmers by James C. Sheusi, publisher Cengage Learning, 2013.

Laboratory Course Work- V

Paper No. XVII

Objective: Give hands on training to the students and make them acquainted with various Real time Applications implemented currently in the Industry.

Project Work

- ✚ Maximum a group of 03 students are allowed to work on a project.
- ✚ Project Synopsis should be submitted by the students to their concern faculty and a declaration should be submitted by the students regarding the originality of work.
- ✚ Project report should prepared by the students & it should be certified by concern faculty & head of the department.
- ✚ Students should submit one hardcopy of report with CD to the department.

Distribution of marks for project is as

Project Work:	30
Project Viva:	10
Project Report:	10
Total Marks:	50

**SWAMI RAMANAND TEERTH
MARATHWADA UNIVERSITY NANDED**

**SYLLABUS
Of
DAIRY SCIENCE**

**B.Sc. Second Year
Choice Based Credit System
Semester Pattern**

Effective from June 2017

Swami Ramanand Teerth Marathwada University, Nanded

Choice Based Credit System (CBCS) Course Structure

Faculty of Science

B. Sc. Second Year Syllabus

Semester Pattern effective from June 2017

Subject: Dairy Science

Semester	Course No.	Name of the Course	Instruction Hrs/ week	Total period	CA	ESE	Total Marks	Credits
III	CCDS III (Section A)	Animal Nutrition (P-VI)	03	45	10	40	50	2
	CCDS III (Section B)	Animal Genetics and Reproduction (P-VII)	03	45	10	40	50	2
	CCDSP II [CCDSIII & IV (Section A)]	Practical's based on P-VI & P-VIII (P-X)	03	08	05	20	25	1
			03	08	05	20	25	1
SECDS I	SEC I (Anyone Skill from optional)	02	02	25	25	50	(02)*	
IV	CCDS IV (Section A)	Processing Technology of Milk (P-VIII)	03	45	10	40	50	2
	CCDS IV (Section B)	Animal Breeding (PIX)	03	45	10	40	50	2
	CCDSP III [CCDS III & IV (Section B)]	Practical's based on P-VII & P-IX (P-XI)	03	08	05	20	25	1
			03	08	05	20	25	1
SECDS II	SEC II (Anyone Skill from optional)	02	02	25	25	50	(02)*	
Total credits semester III and IV								12(04)*

I. ~Note: ESE of CCDSPII, CCDSPIII & SECDS I, SECDS II should be evaluated at annual

Skill Enhancement Course > One skill for each semester from any optional subject.

CCDS = Core Course Dairy Science

CCDSP= Core Course Dairy Science Practical

ESE= End of Semester Examination

CA= Continuous Assessment.

A) Theory Papers (Test / Seminar / Assignment)

B) Practical Paper (Record book & Submission / Excursion Report/ Visit Report

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure

B.Sc. Second Year (Semester -III)

Semester Pattern Effective from June-2017

Dairy Science

CCDS III and Semester III)

(CCDS IV and Semester IV)

Theory and Laboratory Course

Objectives :

The course is framed for getting the students acquainted with

- The breeding and nutritional aspects of livestock.
- The anatomy and physiology of digestive system
- Role of various nutrients in animal nutrition
- The nature and quality of ration/diet required to the livestock for maintaining different body system along-with requirement of ration for production.
- The knowledge of reproduction and different breeding systems along-with application of bio-techniques.
- The recent advances in animal nutrition and animal breeding.
- The basic genetic principles applied in breeding of animals to increase their productivity.
- Milk processing
- Dairy plant layout and operations
- Quality standards for milk

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure

B.Sc. Second Year (Semester -III)

Semester Pattern Effective from June-2017

Dairy Science

CCDS III Section A

Paper-VI

Title – Animal Nutrition

Credit 2 (Marks – 50)

3 Periods per week/Total Periods-45

Unit – I	No. of periods 10
<ul style="list-style-type: none">❖ Introduction to Animal Nutrition❖ Anatomy of Ruminant's digestive system❖ Study of Digestive system of Poultry❖ Rumen ecosystem & Rumen manipulation	
UNIT – II	10
<ul style="list-style-type: none">❖ Definition, classification, importance of nutrients in Animal nutrition- water, carbohydrates, proteins, Lipids, Minerals, Vitamins.	
UNIT- III	13
<ul style="list-style-type: none">❖ Digestion, absorption, metabolism of carbohydrates, proteins, lipids❖ Digestibility – Digestibility of nutrients, Digestion trials, factors affecting digestibility.	
UNIT – IV	12
<ul style="list-style-type: none">❖ Evaluation of energy value of feed –<ul style="list-style-type: none">▲ GE, DE, ME, NE, SE, TDN, HI, NR❖ Estimation of energy Value of Feeds by –<ul style="list-style-type: none">▲ C N Balance technique▲ Bomb Calorimeter▲ Calculation of TDN by digestion trials▲ Chemical composition❖ Estimation of Protein value of feeds by –<ul style="list-style-type: none">▲ PER, B.V., Net protein utilization▲ DCP estimation by digestion trials▲ Nitrogen Balance experiments▲ NPN substances as a source of proteins	

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure

B.Sc. Second Year (Semester -III)

Semester Pattern Effective from June-2017

Dairy Science

CCDS III Section B

Paper-VII

Title – Animal Genetics and Breeding

Credit 2 (Marks – 50)	3 Periods per week/Total Periods-45
Unit – I	No. of periods 07
<ul style="list-style-type: none">❖ Introduction to Animal Genetics❖ Animal genetic resources, conservation and approach related to regional aspects.❖ Gene, its function.❖ Mendel’s laws of inheritance	
UNIT – II	10
<ul style="list-style-type: none">❖ Qualitative and quantitative traits.❖ Variation and causes of variation.❖ Sex linked inheritance.❖ Sex influenced inheritance and sex limited inheritance❖ Random mating, Hardy Weinberg equilibrium	
UNIT- III	14
<ul style="list-style-type: none">❖ Anatomy of Reproductive system of cattle.❖ Study of Gametogenesis, Maturation of Spem and Ovum.❖ Study of Puberty, oestrus cycle.	
UNIT – IV	14
<ul style="list-style-type: none">❖ Fertilization, pregnancy, parturition in cow and buffalo.❖ AI – Time and Technique, Advantages and disadvantages❖ Semen collection, evaluation, freezing, handling and transport.	

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure

B.Sc. Second Year (Semester -III)

Semester Pattern Effective from June-2017

Dairy Science

CCDS IV Section A

Paper-VIII

Title – Processing Technology of Milk

Credit 2 (Marks – 50)	3 Periods per week/Total Periods-45
Unit – I	No. of periods 12
<ul style="list-style-type: none">❖ Procurement of milk, Cooling of milk❖ Milk Processing – a) Straining, Filtration, Clarification b) Pasteurization LTLT, HTST c) Homogenization d) Sterilization	
UNIT – II	12
<ul style="list-style-type: none">❖ Legal standards – PFA, HACCP, FSSAI❖ Pricing policy❖ Standardized milk❖ Storage and milk packaging❖ Distribution of milk	
UNIT- III	13
<ul style="list-style-type: none">❖ Layout of milk processing plant❖ Flooring, Ventilation, Doors, Windows❖ Drainage system, washing unit❖ Rodent control❖ Maintenance of hygiene	
UNIT – IV	08
<ul style="list-style-type: none">❖ Metals used in Dairy Industry.❖ Steam Generation❖ Refrigeration❖ Dairy waste disposal	

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure
B.Sc. Second Year (Semester -III)
Semester Pattern Effective from June-2017

Dairy Science
CCDS IV Section B
Title – Animal Breeding

Credit 2 (Marks – 50) Paper-IX 3 Periods per week/Total Periods-45

Unit – I	No. of periods 10
<ul style="list-style-type: none">❖ Principles of animal breeding❖ Fertility, breeding efficiency, factors affecting breeding efficiency❖ Sterility, causes of sterility	
UNIT – II	10
<ul style="list-style-type: none">❖ Biotechniques in animal reproduction.❖ Oestrus synchronization.❖ E.T.T., cloning❖ Super ovulation, super foetation❖ Formation of breeding plans on the basis of genotypic and phenotypic parameters.❖ Factors to be considered while preparing Breeding plans.	
UNIT- III	13
<ul style="list-style-type: none">❖ System of animal breeding❖ Inbreeding – Methods, effects on growth, production.❖ Out breeding – Methods, effects on growth, production.❖ Buffalo breeding in India❖ Review of cattle crossbreeding policy in India	
UNIT – IV	12
<ul style="list-style-type: none">❖ Selection❖ Choosing traits for selection❖ Heritability❖ Selection methods<ul style="list-style-type: none">▲ Performance method▲ Pedigree selection▲ Progeny testing▲ Tandam method❖ Effects of selection.	

**Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure**

B.Sc. Second Year (Semester -III)

Semester Pattern Effective from June-2017

Dairy Science

Practical Paper : CCDS II(CCDS III & IV Section A)

Credits – 0 2

Paper - X

Marks : 50

Annual Practical Based on CCDS III & IV Section A

1. General precautions in Nutrition Laboratory
2. Collection of Feeds, fodders and Preparation of samples
3. Proximate principles of feeds
4. Determination of DM and moisture content
5. Determination of Ether Extract
6. Determination of Nitrogen and crude protein
7. Determination of Ash
8. Estimation of TDN Value
9. Classification of feeds and computation of ration
10. Study of Reproductive organs of cattle on charts / model specimens
11. Study of section slides – TS of Test, TS of ovary, spermatogenesis, Oogenesis, Maturation of sperm.
12. Preparation of heat expectancy chart
13. Microscopic evaluation of spermatozoa in cattle and buffalo
14. Microscopic examination of semen
15. Estimation of pH & semen
16. Determination of mobility of spermatozoa
17. Assembling and preparation of AV and collection of semen by AV method
18. Study of AI equipments and Insemination Technique
19. Pregnancy diagnosis
20. Excursion / Visits to – Cattle and Buffalo breeding farms
 - Slaughter house
 - AI centre
 - Semen collection and preservation centre

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure
B.Sc. Second Year (Semester -III)
Semester Pattern Effective from June-2017

Dairy Science

Practical Paper : CCDSP III (CCDS III & IV Section B)

Credits – 0 2

Paper - XI

Marks : 50

Annual Practical Based on CCDS III & IV Section B

- 1) Preparation of animal for milking
 - 2) Equipments /Utensils used in milking
 - 3) Milking methods – Hand milking
 - Machine milking – Milking machine components and working
 - 4) Sampling of milk.
 - 5) Organoleptic tests, platform tests
 - 6) Preparation of standardized milk
 - 7) Study of detergents
 - 8) Cleaning and sanitation of milk equipments
 - 9) Milk packaging materials
 - 10) Estimation of gene frequency
 - 11) Estimation of genotype frequency
 - 12) Estimation of Most Probable Producing Ability (MPPA) in cow
 - 13) Judging of dairy cattle
 - 14) Estimation of sire Index
 - 15) Estimation of Breeding efficiency of cow
 - 16) Excursion / visits to
 - ❖ Cattle and buffalo breeding farm
 - ❖ Agricultural/Veterinary Colleges
 - ❖ Semen collection & preservation centers
-

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure
B.Sc. Second Year (Semester -III)
Semester Pattern Effective from June-2017
Dairy Science

Credits – 0 2 /Marks 50

3 Lectures per Week/ Total Periods 45

Skill Enhancement Course SEDS-I (A)
Feed processing and preparation

- | | |
|---|----|
| 1. Classification of feeds | 10 |
| 2. Feeding stuff and their nutritive value | |
| 3. Comparative Study of | |
| • Roughages and Concentrates | |
| • Succulent and non succulent fodders | |
| • Cereal and Leguminous roughages | |
| • Conventional and Non conventional feeds | |
| 4. Ration - | 10 |
| • Types | |
| • Principles of rationing | |
| • Computation of ration | |
| 5. Feed Processing – | 10 |
| • Importance and significance | |
| • Physical Treatment | |
| • Chemical Treatment | |
| • Microbiological Treatment | |
| 6. Preparation of Feeds – | 10 |
| • Concentrate mixture | |
| • Calf starter | |
| • Milk replacer | |
| • Feed supplements, feed additives | |
| • Non conventional feeds | |
| • Feed mixtures with non conventional Agro industrial by products | |
| 7. Visit to Feed Processing Plants. | 05 |

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure
B.Sc. Second Year (Semester -III)
Semester Pattern Effective from June-2017
Dairy Science

Credits – 0 2 /Marks 50

OR 3 Lectures per Week/ Total Periods 45

Skill Enhancement Course SEDS-I (B)

Conservation of Greens

- | | |
|--|----|
| 1. Principles of conservation | 10 |
| 2. Significance | |
| 3. Suitable crops for conservation and stage of harvesting | |
| 4. Silage making - | 15 |
| • Definition, Standards of Silage | |
| • Types of silo pits and their dimensions | |
| • Ensiling, care during and after ensiling | |
| • Chemical changes during ensiling | |
| 5. Hay Making – | 10 |
| • Definition | |
| • Characteristics of good quality hay | |
| • Curing of hay (Hay making process) | |
| • Factors affecting quality of hay | |
| 6. Visit to silage and hay unit | 10 |

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure
B.Sc. Second Year (Semester -III)
Semester Pattern Effective from June-2017
Dairy Science

Credits – 0 2 /Marks 50

3 Lectures per Week/ Total Periods 45

Skill Enhancement Course SEDS-II (A)

Organoleptic and platform Tests

1. Study of Milk and its constituents	05
2. Physico- chemical properties of milk	05
3. Receiving of milk at RMRD and Collection centre	05
4. Organoleptic Tests – Sensory evaluation	
Hedonic scales	10
5. Platform Tests	10
6. Visits to Dairy Plant and collection centre, chilling centre	10

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure
B.Sc. Second Year (Semester -III)
Semester Pattern Effective from June-2017
Dairy Science

Credits – 0 2 /Marks 50

OR 3 Lectures per Week/ Total Periods 45

Skill Enhancement Course SEDS-II (B)

Artificial Insemination

1. Study of male and female reproductive system	05
2. Gametogenesis, oestrus cycle	05
3. Semen	10
Definition	
Collection by AV method	
Collection technique	
Evaluation	
Freezing, Handling & Storage	
4. Heat detection	03
5. Study of AI Equipments	05
6. Time and Technique of AI	02
7. Pregnancy diagnosis	05
8. Visits to VET Hospitals and AI centre	10

Reference Books

1. Reproduction in farm animals- C. N. Sane & others
2. Animal nutrition & feeding practices in India – S. K. Ranjhan
3. Hand book of Indian dairy farmers – Patrick John.
4. A Textbook of genetics – Dalela R. C. & S. R. Verma
5. A Textbook of animal husbandry – G. E. Banerjee
6. Feeds and Feeding – G. B. Morrison
7. Live stock production and management – NSR Sastri & Thomas
8. A Textbook of animal nutrition – G. C. Banerjee
9. Genetics and Breeding in farm animals – Banerjee and Mukhargee
10. Reproduction in farm animals – Hafeez
11. Animal nutrition – Maynord & Loosli
12. Handbook & physiology of farm animals – R. D. Frandson
13. Anatomy & physiology of farm animals – R. D. Frandson
14. Principles and practices of dairy farm management – Jagdish Prasad
15. Modern dairy cattle management – Wiltam N. Etagas
16. A Textbook of animal Husbandry & Dairy Science – Jagdish Prasad
17. Dairy Cattle feeding and management – Wiltam N. Etagas
18. Handbook of Animal Husbandry Sciences – Amlendy Chakrabarti
19. Live stock feeding & management – Sing & Moor
20. Laboratory manual for nutrition research – S. K. Rajan & Gopal Krishna
21. The science of animal Husbandry – Balkey & Bade
22. Principles of Dairy Science – G. H. Schmidt, L. D. Vleck
23. Dairy Cattle : Principles, Practices, Problems & Profits – Donald L. Bata, Frank
24. Milk Production in Tropics – A. Chamberlin
25. Analytical Techniques in animal nutrition research – N. N. Pathak, D. N. Kansra,
R. C. Jakhmola
26. Analytical Techniques in animal nutrition – P. C. Gupta, V. A. Sharma, A. B. Maudar
27. Animal Nutrition – Cramptom and Harris
28. Applied Nutrition – D. V. Reddy
29. Nutritional Microbiology of Farm Animals – D. N. Karma, N. N. Pathak
30. Genes and Evolution – JHA
31. Cattle Embryo Transfer Procedure- Curtis

32. Genetics of Livestock Improvement – John F. Lasley
33. An Introduction to Genetics – B. K. Jain
34. A Test Book of Animal Nutrition – D. N. Verma
35. Outlines of Dairy Technology – Sukumar De
36. Dairy Processing – James Warner
37. Engineering for Food and Dairy Processing – E. M. Farrell
38. Technology of Milk Processing – C. P. Anantkrishnan, A.Khan and P.N. Padmanabhan.
39. Dairy Plant Management and Engineering – Tufail Ahemad
40. Animal Genetics and Breeding – Dr. Satish Kulkarni, Dr Pandurang Gangasagar,

Dr. K. G. Dande

Dr. S. A. Kulkarni

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure
B.Sc. Second Year (Semester -III)
Semester Pattern Effective from June-2017
Dairy Science
Practical Question Paper Proforma-X

Time – 4 Hrs.	Marks 50
Q.1) Computation of ration	10
Q.2) Spotting – 10 spots (Nutrition lab equipments / Reproductive Organs of Cattle/ Section Slides reproductive system/Digestive system)	10
Q.3) Proximate analysis DM/CP/EE/NFE/Ash/ Estimation of DCP/TDN/ SE Value	10
OR	
Evaluation of Semen-Macroscopic evaluation of semen/ Total sperm count/Sperm motility/ pH of semen/Assembling of AV	
Q.4) A I Technique / Pregnancy Diagnosis / Heat Detection	10
<hr/>	
Internal / C. A. - Record book and Viva-voce	05
- Excursion Report/ Visit Report/Submission collection of feeds and fodder	05

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure
B.Sc. Second Year (Semester -III)
Semester Pattern Effective from June-2017
Dairy Science
Practical Question Paper Proforma-XI

Time – 4 Hrs.	Marks 50
Q.1) Milking methods / Estimation of Sire Index/ Estimation of Breeding Efficiency	05
Q.2) Sampling / platform tests of milk	10
Q.3) Preparation of Standardized milk/packaging materials	10
Q.4) Estimation of gene frequency/Genotype frequency/ Most Probable Producing Ability (MPPA) of cow	15
Internal / C. A.	05
- Record book and Viva-voce	05
- Excursion Report/ Visit Report	05

Swami Ramanand Teerth Marathwada University Nanded
Semester Pattern Curriculum Under
Choice Based Credit System (CBCS) Pattern For
Faculty of Science
Under Graduate (U.G.) Programmes
Subject : Dairy Science

CLASS: B. Sc. Second year
Annual Pattern
Skill Enhancement Course Dairy Science (SECDS) I & II
End of Semester Examination (ESE)

Maximum Marks 25

SEAT NO.

MARK SHEET

Sr. No.	End of Semester Examination (CA) (ESE)	Maximum Marks	Obtained Marks
1.	Skill Work report	10	
2.	Skill Work Presentation	10	
3.	Submission, Viva voce & others if any	05	
4.	Total Marks	25	

Name & Signature of

Examiner 1:

Examiner 1:

Continues Assessment (CA)

Maximum Marks 25

SEAT NO.

MARK SHEET

Sr. No.	End of Semester Examination (CA) (ESE)	Maximum Marks	Obtained Marks
1.	Skill work report seminar	15	
2.	Practical Skill Test	10	
3.	Total Marks	25	

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY
NANDED**

SYLLABUS

OF

Dairy Science

B.Sc. Third Year

Choice Based Credit System (CBCS) Semester Pattern

Effective from June - 2018

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
CHOICE BASED CREDIT SYSTEM (CBCS) SEMESTER PATTERN
Faculty of Science
Under Graduate (UG) Programme DAIRY SCIENCE - CURRICULUM
(W.e.f. Academic year 2018 - 2019)
An outline Class B. Sc. Third year

Core Course Code & Semester/ Annual Pattern	Section	Paper No. & Title	Periods per week	Marks for		Total Credits (Marks)
				External (ESE)	Internal CA	
DSEDS V and Semester V	Section A	Technology of Indigenous Dairy Products P.XII	3	Marks 40	Marks 10 Test/Seminar/ Assignment	Credits 02 Marks 50
	Section B (Elective)	* Forage Production, Feeds and Feeding P.XIII	3	Marks 40	Marks 10 Test/Seminar/ Assignment	Credits 02 Marks 50
DSEDS VI and Semester VI	Section A	Technology of Western Dairy Products P.XIV	3	Marks 40	Marks 10 Test/Seminar/ Assignment	Credits 02 Marks 50
	Section B (Elective)	* Sheep, Goat, Poultry and Pig Farming. P.XV	3	Marks 40	Marks 10 Test/Seminar/ Assignment	Credits 02 Marks 50
DSEDSP V and Annual Pattern	Section A	Laboratory Course Work V: Practical's based DSEDS - V (Sect. A&B) P.XVI	3	Marks 40	Marks 10 a) 05 for Record book b)05Marks for Viva-voce/Excursion report	Credits 02 Marks 50
	Section B	Skill Enhancement Course-III DSEDS -V : Practical based on Typical skill	3	25	25 CA	Credits 02 Marks 50
DSEDSP VI and Annual Pattern	Section A	Laboratory Course Work VI: Practical based DSEDS - VI (Sect. A&B) XVII	3	Marks 40	Marks 10 a) 05 for Record book b)05Marks for Viva-voce/Excursion report	Credits 02 Marks 50
	Section B	Skill Enhancement Course-IV DSEDS -VI :	3	25	25 CA	Credits 02 Marks 50

SEC Skill Enhancement Course >opt any one for each semester.

DSEDS = Discipline Specific Elective Dairy Science

DSEDSP = Discipline Specific Elective Dairy Science Practical ESE = End of Semester Examination

CA = Continuous Assessment

* = Elective Paper

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
Choice Based Credit System (CBCS) And Semester Pattern
DAIRY SCIENCE
B.Sc. Third Year
DSEDS-V Semester – V and DSEDS-VI – Semester- VI Theory and Practical
SYLLABUS

The Silent Features of the Course:

1. Traditional milk products represent the most prolific segment of our Indian dairy industry.
2. Indian dairy products served as a cultural link with the modern dairy industry, provide a technological base for diversification, export promotion and as a value added product to make the modern dairy industry economically strong.
3. Consumption of western dairy products vary widely worldwide. western Dairy products provides have been an important part of human diet.
4. Economic livestock production achieved by feeding of least cost rations and balanced rations.
5. Goat rearing has been recommended as the best choice for the rural people in developing countries.
6. India Ranks first for goat genetic resources.
7. India's vast genetic resources in sheep reflected by the presence of number of breeds of sheep.
8. Sheep are reared for a verity of purposes and can be maintained under diverse environmental conditions.
9. Pig production is an enterprise of converting inedible or low quality food rich in animal protein.
10. Poultry keeping can be made a profitable business. Success or failure with poultry depends upon poultry keeper himself.

Utility of the Course:

After completing, one can work as a supervisor in a dairy plant either in equipment and plant design or project execution. He or She can also be a dairy consultant or take up entrepreneurial ventures in milk plants or ice cream, cheese, butter units. One can work as Dairy Farm manager.

Learning Objectives of the Course:

1. To impart training to develop confidence in the management practices in :a) Raising sheep, goat, poultry and pig. b) Care and management of different classes of livestock.
2. To inculcate capability for energy conservation through recycling of farm waste.
3. To inculcate knowledge of Production of hygienic milk, Manufacture of milk products indigenous and western Dairy products.
4. To inculcate Cultivation and preservation of fodder crops.
5. To develop facilities for production and sale of cattle feed, fodders.

6. To prepare young and enthusiastic entrepreneur for self-employment through dairying and dairy associated activities.

Prerequisites:

1. The knowledge of milk composition.
2. To know the body parts of live stock
3. To know the terminology used in dairying.
4. To know the different breeds
5. Basic knowledge of fodder parts.
6. Needs dairy equipments/instruments.

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,
NANDED**

CHOICE BASED CREDIT SYSTEM (CBCS)
Semester Pattern Dairy Science B.Sc. Third Year
DSEDS - V and Semester - V

SECTION – A

Title – Technology of Indigenous Dairy Products.

Marks – 50 / Credit 2 +0 **Paper -XII** **Total periods 45**
3 Periods per week

Unit I	No. of Periods 06
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Introduction to milk product Technology.
Indigenous dairy products and Entrepreneurial opportunities.
Classification of milk products.
Market milk product – scope and limitation.

Unit II	12
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Study of starter culture
Study of fermented milk products – curd, chakka,shrikhand
Khoa – Definition, composition, types, manufacturing, packaging
Khoa based sweetmeats- Pedha,Gulabjamun.

Unit III	12
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Study of milk based products – Basundi and Rabri.
Channa – Definition, composition,manufacturing.
Channa Based sweet meats – Rasogolla, Sandesh,Kalakand.
Panir-Definition, composition, manufacturing.

Unit IV	15
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Makkhan – definition, composition, manufacturing, packaging
Ghee – History, definition, composition, methods of preparation, grading, packaging,
storage and defects, ghee residue.
Indigenous frozen dairy products – kulfi, malaika-baraf.

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,
NANDED**

**CHOICE BASED CREDIT SYSTEM (CBCS)
B.Sc. Third Year Dairy Science DSEDS - V and Semester – V
Section – B (Elective)
Forge production, Feeds and Feeding**

Max. Marks 50 /Credit 02+0

Paper-XIII

**Total periods 45
3 Periods per week**

UNIT– I	No. of periods
	10

- ❖ Classification of feeds.
- ❖ Importance of concentrates and roughages
- ❖ Feed additives, feed supplements.
- ❖ Antibiotics and Growth Promoters
- ❖ Probiotics in Animal Nutrition
- ❖ Hormones and Hormonal preparations

UNIT– II	13
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- ❖ Cultivation of green forages, their nutritional characteristics and importance in Animal Nutrition.
- ❖ Cultivation of Legumes-Lucerne, Berseem, Subabhul.
- ❖ Cultivation of Non Legumes – Jowar, Maize, Bajra.
- ❖ Cultivation of Grasses-Napier, Para grass, Yeshwant, Jaywant.

UNIT–III	12
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- ❖ Ration –Types, Principles of Rationing
- ❖ Feeding practices for different categories of animals – Dry, Pregnant, Lactating cow and buffalo.
- ❖ Processing of feeds and fodders – Physical, Chemical, Microbiological treatment.

UNIT– IV	10
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- ❖ Significance of fodder preservation
 - Silage Making – Principles, Types of silo pits.
 - Ensiling, Bio-chemical changes during ensiling
 - Quality and characteristics of silage
 - Hay Making-Principles. Types, curing of hay, quality, characteristics of hay.
- ❖ Pasture management and grazing systems.

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
CHOICE BASED CREDIT SYSTEM (CBCS)**

Semester Pattern

B.Sc. Third Year Dairy Science

DSEDS - VI and Semester – VI

Section – A

Title: Technology of Western Dairy Products

Max. Marks 50/Credit 02+0

Paper-XIV

**Total periods 45
3 Periods per Week**

UNIT– I	No. of Periods
	09
Recent trends in Dairy Technology Membrane Technology Food Preservation Water activity	
UNIT– II	12
Cheese - History, definition, composition, classification, manufacturing defects and Storage. Condensed milk-History, definition, composition, manufacturing and defects. Evaporated milk-Definition, Composition, methods of manufacturing, Packaging, defects.	
UNIT–III	12
Cream-Methods of separation, types, defects, efficiency of cream separator. Ice-cream-History, definition, composition, manufacturing, storage, defects. Butter -Definition, Composition, Manufacturing, Storage and defects.	
UNIT– IV	12
Milk Powder - Definition, composition, types (SMP, WMP), methods of manufacturing, Packaging, Storage and defects. Study of special milks– Recombined milk, Reconstituted Milk, Yoghurts, Kefir and Kumiss. and milk products.	

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,
NANDED**

**CHOICE BASED CREDIT SYSTEM (CBCS)
B.Sc. Third Year Dairy Science DSEDS - VI and Semester – VI
Section – B (Elective)**

Title: Sheep, Goat, Poultry and Pig Farming

Marks 50 /Credit 2+0 **Paper-XV** **Total periods 45
3 periods per week**

Unit-I	No. of Periods
Sheep and Goat farming :Introduction History of Domestication Common terminologies in relation to Sheep and Goat Taxonomic classification.	10
Unit-II	12
Role of Sheep and Goat in national economy Study of Housing systems for Sheep and Goat. Tethering system, Indoor system. Maintenance of sanitary and hygienic Conditions on Sheep and Goat farm Shearing, Docking and Dipping	
Unit –III	15
Poultry farming :Introduction History of domestication Common terminology in relation to poultry. Taxonomic classification. Role of poultry in national economy. Poultry Management System Free range system. Semi range system. Intensive system.	
Unit- IV	08
Introduction to Pig farming. Common terminologies in relation to pigs. Pig Housing.	

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,
NANDED**

CHOICE BASED CREDIT SYSTEM (CBCS)

**B.Sc. Third Year, Dairy Science DSEDSP – IV – Annual Pattern
Laboratory Course Work – IV – Section – A (Practical based on DSEDS – V
Section – A & B)**

Marks 50 / Credit 0+2

Paper-XVI

3 periods per week

- 1) Preparation of Curd,Lassi
 - 2) Preparation of Chakka,Shrikhand
 - 3) Preparation ofKulfi
 - 4) Preparation of Makkhan
 - 5) Preparation of Ghee
 - 6) Preparation of Channa, Rasogolla,Kalakand
 - 7) Preparation of Khoa, Burfi,Gulabjamun,
 - 8) Preparation of Basundi, Rabri
 - 9) Detection of adulterants in milk products.
 - 10) Silage making
 - 11) Haymaking
 - 12) Feed preparations and processing.
 - 13) Feed formulations
 - 14) Preparation of Cropping scheme
 - 15) Feeds and fodder collection.
 - 16) Visit to – feed factory, Dairy Industry,
Traditional dairy product manufactures Agro industries
BAIF Urlikanchan.
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SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
Choice Based Credit System (CBCS)
Semester Pattern
DAIRY SCIENCE
B.Sc. T.Y. SECDS-III
Skill Enhancement Course Work III
Section – B

Marks 50 / Credits– 2

Total Periods 45
3 periods per Week

Skill Enhancement Course DSEDS – I (A)
Dairy Byproducts

Unit I	No. of periods
	07
Introduction, Definition, Classification of By products of Indian Dairy Industry Composition of By products. Various principles of utilization of food products	
Unit II	10
Methods of utilization of skim milk- In the preparation of Industrial casein / Acid casein- Introduction, Types, Flow diagram of manufacture composition, defects, uses	
Unit III	10
Methods of utilization of whey- Whey beverages- Whey vit, yeast whey beverage. Whey Protein Concentrates (WPC) Lactose- Introduction, Principle, flow diagram of manufacture, Specification / standard, Uses.	
Unit IV	08
Methods of Utilization of Ghee residue- Introduction, Definition, Composition, Utilization in the preparation of Candy, Chocolate etc	
Visits to –	10
Ghee manufacturing units, Beverage industry,.Lactose manufacturing units, Casein manufacturing units, Candy and chocolat es manufacturing units	

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
Choice Based Credit System (CBCS)
Semester Pattern
DAIRY SCIENCE
B.Sc. T.Y. SECDS-III
Skill Enhancement Course Work III
Section – B

Marks 50 / Credits– 2

Total Periods 45
3 periods per Week

OR

Skill Enhancement Course DSEDS – I (A)
Concentrate Feeds and Agro industrial by products in animal Nutrition

Unit I	No. of periods
	10
<hr/> <p>Study of Concentrates – Cereal Grains & Their Nutritive Value</p> <p style="margin-left: 40px;">a) Oil Seeds, Oil Cakes & Nutritive Value</p> <p style="margin-left: 40px;">b) Study of Concentrates available in local market.</p> <hr/>	
Unit II	05
<hr/> <p>Concentrate by products –</p> <p>Wheat bran, Rice bran, Maize Gluten Husk, Turchuni, Gram chuni</p> <hr/>	
Unit III	10
<hr/> <p>Industrial by products –</p> <p style="margin-left: 40px;">a) Sugar Industrial by products – Molasses, Press-mud, Bagasse, Sugarcane tops, UMMB, UROMOL</p> <p style="margin-left: 40px;">b) Animal Industrial by products – Fish meal, Bone meal, Blood meal, Poultry excreta & Local market available by products.</p> <hr/>	
Unit IV	10
<hr/> <p>Fruit and Vegetable Industry by Products-</p> <p>Seed Kernels, Hulls, Tomato Pomace, Potato Pomace, apple Pomace, Banana Peels, Citrus Peels, Pine apple waste, Leafy Vegetable Waste.</p> <p>Visits /Excursions- Field Study of Fodder Crops , Feed Factories, Oil Industries ,Fruit and Vegetable Industry to study by- products, Sugar Industry.</p> <hr/>	

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,
NANDED**
**CHOICE BASED CREDIT SYSTEM (CBCS) B.Sc. Third Year Dairy Science DSEDSP –
V and Annual Pattern Laboratory Course Work -V**
(Practicals Based DSEDS – VI Section A & B)
Paper No. XVII

Marks – 50 / Credit 0 +2

3 Periods per week

- 1) Determination of fat from milk products
- 2) Determination of TS milk products
- 3) Adulteration and its detection from dairy products
- 4) Preparation of Recombined milk, Reconstituted Milk
- 5) Preparation of Ice cream
- 6) Cream separation
- 7) Sundried milk powder
- 8) Study of sheep breeds
 - Indigenous breeds
 - Gaddi, Bhakarwal, Chokla,
 - Merwari, Deccani, Nellore,
 - Exotic breeds – Merino, Rambouillet
- 9) Study of Goat Breeds–
 - Indigenous – Jamunapari, Beetal, Surti, Osmanabadi, Sargamneri,
 - Exotic – Angora, Sannen,
- 10) Study of Poultry breeds- WLH, RIR
- 11) Study of Pig breeds- White Yorkshire, Deshi breeds
- 12) Poultry house equipments
- 13) Grading of wool
- 14) Grading of egg
- 15) Visits to – Sheep, Goat, Poultry and Pig farms,
Agricultural and Veterinary colleges,
Dairy Industries,
Milk Powder Plants,

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
CHOICE BASED CREDIT SYSTEM (CBCS)

Semester Pattern
DAIRY SCIENCE B.Sc. T.Y.SECDS IV
Skill Enhancement Course Work IV
Section – B

Marks 50 / Credits– 2

3 Periods per week

OR	Total Periods 45
Skill Enhancement Course DSEDS – I (B)	
Special Milks	

Unit I	No. of periods
	08
<hr/>	
Introduction, Definition, Classification of Processed Special Milk	
(I) Processed Special Milk-	
i Sterilized Milk	
ii Homogenized Milk	
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Unit II	
	07
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Introduction, Definition, Methods of Manufacture, Uses of Value Added Special Milk	
(II) Value Added Special Milk -	
i Flavoured Milk	
ii Vitaminized milk / Irradiated Milk / Fortified Milk	
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Unit III	10
<hr/>	
Introduction, Definition, Methods of Manufacture, Uses of Fermented Special Milk	
(III) Fermented Special Milk	
i. Cultured Butter Milk	
ii. Acidophilus Milk	
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Unit IV	10
<hr/>	
Introduction, Definition, Methods of Manufacture, Uses of Standardized Special Milk	
(IV) Standardized Special Milk- i. Toned Milk ii. Double Toned Milk	
(V) Special Milk of Plants / Vegetable origin- i. Soya Milk ii. Groundnut Milk	
iii. Almond Milk	
Visits to- Milk processing plants, Fermentation plants , Soya processing plants	
Food technology college	
	10

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
CHOICE BASED CREDIT SYSTEM (CBCS)
Semester Pattern
DAIRY SCIENCE B.Sc. T.Y.SECDS-IV
Skill Enhancement Course Work IV
Section – B

Marks 50 / Credits– 2

3 Periods per week

OR	Total Periods 45
Skill Enhancement Course DSEDS – I (A)	
Poultry Farming	
Unit I	No. of periods
Introduction to Poultry Framing History and Domestication of Poultry Framing Study of Poultry Breeds- White – Leg–Horn, RIR, Minorca, Kadaknath	06
Unit II	10
Poultry Housing – Systems and equipment’s Egg: Structure, Grading, Marketing Hatchery Management	
Unit III	09
Brooding /Chick Management Grower Management Layers Management	
Unit IV	10
Poultry Diseases –Ranikhet, Gamboro,Marek’s, Coccidiosis, Ecto- Endo Parasites Vices in Poultry Visits- Poultry Farms, Vet. Hospitals, Hatcheries and Poultry feed factories	10

List of Equipment / Glassware's

- 1) Weighing scales, balances
- 2) Microscope, Colony counter, Inoculation chamber
- 3) Centrifugal cream separator (Hand operated, Power driven)
- 4) Butter churner and accessories, Mixer grinder
- 5) Heating units, heat exchangers
- 6) Stainless steel and iron pans, Ladle, spoons, scrapers
- 7) Paneer pot and paneer press
- 8) Cheese making equipments
- 9) Milk packaging materials, capping unit (handoperated)
- 10) Laboratory glasswares and required chemicals
- 11) Majoneer Flask
- 12) Centrifugal fat testing machine
- 13) Feed processing equipments
- 14) Silage making equipments
- 15) Equipments for preparation of unconventional feeds
- 16) Ice-cream making equipments.

Reference Books:

- Outlines of Dairy Technology
Milk and Milk Products
Milk and Milk Products Technology
- Modern Dairy Product
Dairy Chemistry
Principals of Dairy Chemistry
A Text book of Dairy Chemistry
Fundamentals of Dairy Chemistry
Dairy Chemistry
Dairy Processing
Indigenous milk products
Hand book of Dairy Science
Dictionary of Dairying
Engineering for Food and Dairy Processing
Dairy Plant-Management and Engineering
Text book of Practical Dairy Chemistry
Milk Testing
Dairy Microbiology
Dairy Bacteriology
Fundamentals of Dairy Microbiology
Standard Methods for Examination of Dairy Products
Market Milk Industry
Comprehensive Dairy Microbiology
A Text Book of Animal Husbandry
The Fluid Milk Industry-Henderson
Technology of Dairy plant operations
Technology of milk processing
- Milk and Its properties
Chemical & Microbiological Analysis of
Milk & Milk projects
Goat production
Dairy Cattle Science
Animal Production and Dairy Technology
Sheep, Goat and Poultry Farming
Technology of Indian Milk Products
- S. K.De
- Eckless, Combs and Macacy
- Mohammad Raziuddin and Ashok Hembade.
-Lampert
- M.M.Rai
- Jeneess & Patton
- N.C.Ganguly
- Web &Jonson
-Fox
- James Warner
- ICARpub
- K.C.Mahanta
- Davis & Leonard Hill
- E.M.Farrell
- TufailAhemad
- N.K. Roy & D.C.Sen
- J.G.Davis
- K.C.Mahanta
-Hammer
- J.B. Prajapati
- GaryH. Richardson
- C.I. Rhodhouse & J.L.Henderson
- Yadav, Batish and Grover
- G.C.Banerjee
-ISI Specifications - BIS Publication
- K.P.S.Sangwan
- C.P. Anantakrishnan, A.Khan
And P.N. Padmanabhan
- S.M.Srivastava
- Ramakant Sharma
- FAO
- Ensminger
- Satish Kulkarni
-Satish Kulkarni
-R.P. Aneja, B.N.Mathur R
C Chandan, A.K. Banerjee.

Dr. A.S.Hembade
Chairman
(Board in Dairy Science)

Swami RamanandTeerthMarathwada University, Nanded

B.Sc. Third Year

CBCS and Annual Pattern

Practical Question Paper Proforma

Laboratory Course

Time – 3.00 Hrs.

(Annual pattern) Paper-XVI

Marks - 40

Q.1 Spotting –10 spots (Milk Products / Appliances)/(Feeds and Fodders)	10
Q.2. Preparation of Dairy Product (anyone) Basundi / Rabri / Khoa / Channa/Silage making / Hay making	10
Q.3. Preparation of Dairy Product (anyone) Gulabjamun / Pedha / Rasogolla / Kalakand/Processing of feeds	08
Q.4. Preparation of Dairy Product Dahi / Chakka / Shrikhand / Makkhan /Ghee OR Cultivation Practices for Jowar/ Maize / Lucerne / Berseem	08
Q.5.Viva-voce	04

Swami RamanandTeerthMarathwada University, Nanded
B.Sc. Third Year CBCS and Annual Pattern
Practical Question Paper Proforma
Laboratory Course - XVIII

DSEDSP – V
Paper-XVII

Time – 3.00 Hrs.	Marks - 40
Q.1. Spotting –10 spots (Equipment's / Milk Products)/ (Sheep / Goat / Poultry / Pig breeds)	10
Q.2. Detection of Adulterants /Preparation of Ice-cream Estimation of TS / fat from milk products/Grading of Egg/ Shearing of wool	10
Q.3. Tonned / DoubleTonned milk/ cream separator / Poultry house equipments	08
Q.4. Preparation of Recombined milk/ Reconstituted Milk OR Grading of wool	08
Q.5. Viva-voce	04

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)
CLASS: B. Sc. SECOND YEAR
Subject : Electronics - Semester III& IV
(W. e. f. June 2017)

Semester	Paper No.	Name of the Course	Instruction Hrs/ week	Total periods	CA	ESE	Total Marks	Credits
III	CCEIII (Section A)	Amplifiers, Oscillators & Multivibrators (P-VI)	03	45	10	40	50	2
	CCE III (Section B)	Fundamentals of Microprocessors (P-VII)	03	45	10	40	50	2
	CCEP II (Annual Pattern Section A)]	P-X: Practical's based on P-VI	03	24	05	20	25	1
		Practical's based on P-VIII	03	24	05	20	25	1
	CCE S I (Section A)	SEC I (One SEC from any optional)	03	45	25	25	50	2
IV	CCE IV (Section A)	Op-Amp, It's Applications & Some Specilized ICs Theory Paper (P-VIII)	03	45	10	40	50	2
	CCEIV (Section B)	Microprocessor Interfacing (P-IX)	03	45	10	40	50	2
	CCEP III (Annual Pattern Section A)	P-XI : Practical's based on P-VII	03	24	05	20	25	1
		Practical's based on P-IX	03	24	05	20	25	1
	CCESII (Section B)	SEC II (One SEC from any optional)	3	45	25	25	50	2
Total credits semester III and IV								16

CCE: Core course Electronics SEC: Skill Enhancement Course ESE: End Semester Examination C. A.: Continuous Assessment (Internal)

Note : ESC of CCEP II, CCEP III, SEC I and SEC II should be Evaluated at annual

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course Structure (New scheme)

B. Sc. Second Year (Semester – III)

Semester Pattern effective from June -2017

Electronics

CCE III (Section A)

Amplifiers, Oscillators & Multivibrators (P-VI)

Credits: 02 (Marks: 50)

Periods: 45

Unit I: Load Lines And DC Bias Circuits

(14 Periods)

DC Load line, Q-Point and Maximum Undistorted Output, Need for Biasing a Transistor, Factors Affecting Bias Variations, Stability factor, Beta Sensitivity, Stability Factor for CB and CE Circuits, Base Bias with Emitter Feedback, Base Bias with Collector Feedback, Base Bias with Collector and Emitter Feedback, Voltage Divider Bias, Load Line and output Characteristics, AC Load line, (Numerical Problems) (Book-5)

Unit II: Small Signal Amplifiers

(11 Periods)

h-parameters, An equivalent circuit for the BJT, Transconductance Model, Analysis of CE Amplifier, CB Amplifier, CC Amplifier using h-parameters, Gain in decibels (Numerical Problems)

Unit III: Sine Wave Oscillators

(10Periods)

Introduction to Positive and Negative Feedback, Requirement of an Oscillator, Barkhausen Criterion, Hartley Oscillator, Colpitt's Oscillator, R-C Network, Phase Shift Oscillator, Wien Bridge Oscillator (Circuit diagram, Working, Expression of Frequency and Condition for Oscillations) (Numerical Problems)

Unit IV: Multivibrators And Sweep Circuits(10 Periods)

Transistor as a Switch, Transistorized Astable Multivibrator, Transistorized Monostable Multivibrator, Transistorized Bistable Multivibrator (working and waveforms), Introduction to Sweep Circuits, Sweep Voltage Waveforms, Exponential Sweep, RC Ramp Generator, (Numerical Problems)

References:

1. Introduction To Electronics
-K. J. M. Rao (Oxford and IBH Publishing Company).
2. Solid State Pulse Circuits
-David A. Bell (4/e, Prentice-Hall of India Private Ltd.)
3. Electronic Fundamentals And Applications
-John D. Ryder (Prentice-Hall of India Private Ltd.)
4. Electronics And Radio Engineering
-M.L.Gupta (Dhanpat Rai and Sons)
5. Basic Electronics (Solid State) [Multicolour Illustrative Edition]
- B. L. Theraja (S. Chand & Company Ltd)
6. Electronic Principles
– A.P. Malvino (TMH Publishing Company) Third Edition
7. Principles of Electronics (Vol. II)
- B.V. Narayanarao (Second Edition) Published by New Age International (P) Ltd.

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course Structure (New scheme)

B. Sc. Second Year (Semester – III)

Semester Pattern effective from June -2017

Electronics

CCE III (Section B)

Fundamentals of Microprocessors (P-VII)

Credits: 02 (Marks: 50)

Periods: 45

Unit I: Introduction To Microprocessor Intel 8085 (12 Periods)

Semiconductor Memories (RAM, ROM, PROM, EPROM, EEPROM), Block Diagram of Microcomputer (Microprocessor Based System), Block Diagram of Intel 8085, Function of Each Block, Functional Pin Diagram of Intel 8085, Features of Intel 8085

Unit II: Instruction Set Of Intel 8085 (12 Periods)

Instruction Format (1 byte, 2 byte, 3 byte), Addressing Modes, Classification of Instructions, Instruction Set of 8085

Unit III: Programming And Interrupts of 8085 (13 Periods)

Simple Programs Based on Data Transfer, Arithmetic, Logical, Branching and Machine Control Instructions, Interrupts:-Hardware Interrupts, Software Interrupts, Priority Structure of 8085 Interrupts

Unit IV: Introduction To Microprocessor Intel 8086 (08 Periods)

Block Diagram of Intel 8086, Function of Each Block, Functional Pin Diagram of Intel 8086, Features of Intel 8086

References:

1. Fundamentals Of Microprocessors And Microcomputers
-B. Ram (6/e, Dhanpat Rai, Publications)
2. Microprocessor
-Borole and Vibhute (2/e, Technova Publications)
3. Microprocessor Architecture, Programming And Applications With The 8085
-Ramesh S. Gaonkar (3/e, Penram International Publishing)
4. 8085 Assembly Language Programming
-Lance A. Leventhal (McGraw Hill International Editions)
5. Advanced Microprocessor
-Ajay K. Ray & Kishor M. Bhurchandi (TMH Publication, 7th Revised Edition)
6. Microprocessors & Interfacing
-Douglas V. Hall & S S S P Rao (TMH Publication, 3rd Edition, 2012)

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course Structure (New scheme)

B. Sc. Second Year (Semester – IV)

Semester Pattern effective from June -2017

Electronics

CCE IV (Section A)

Op-Amp, It's Applications & Some specialized ICs (P-VIII)

Credits: 02 (Marks: 50)

Periods: 45

Unit I: Operational Amplifier

(13 Periods)

Theory of Differential Amplifier, Block Diagram of Op-Amp, Schematic Symbol, Ideal Characteristics, Input Offset Voltage, Input Offset Current, Input Bias Current, Input Impedance, Output Impedance, Open Loop Gain, CMRR, Slew Rate, Numerical Problems

Unit II: Applications of Operational Amplifier

(13 Periods)

Inverting Amplifier, Non-inverting Amplifier, Op-Amp as Adder, Op-amp as Subtractor, Op-Amp as Integrator, Op-Amp as Differentiator, Op-Amp as Comparator, Op-Amp as Schmitt's Trigger, Solving Differential Equation, Numerical Problems

Unit III: Active Filters

(13 Periods)

Introduction, First Order Low-Pass Butterworth Filter, Second Order Low-Pass Butterworth Filter, First Order High-Pass Butterworth Filter, Second Order High-Pass Butterworth Filter, Numerical Problems

Unit IV: Specialized ICs

(06 Periods)

Block Diagram of IC555, IC 555 as Astable Multivibrator, IC555 as Monostable Multivibrator, IC566 (Pin Diagram, Block Diagram and Use as VCO), Numerical Problems

References:

1. Op-Amps And Linear Integrated Circuits
-Ramakant Gayakwad (Prentice Hall of India Private Limited)
2. Electronic Fundamentals And Applications
-John D. Ryder (Prentice Hall of India Private Limited)
3. Electronic Principles
-A. P. Malvino (TMH Publishing Company)
4. Electronics and Radio Engineering
-M.L.Gupta (Dhanpat Rai and Sons)

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course Structure (New scheme)

B. Sc. Second Year (Semester – IV)

Semester Pattern effective from June -2017

Electronics

CCE IV (Section B)

Microprocessor Interfacing (P-IX)

Credits: 02 (Marks: 50)

Periods: 45

Unit I: Basic Interfacing Concepts

(10 Periods)

Introduction, memory mapped I/O scheme, I/O mapped I/O scheme, Data Transfer Schemes:- Synchronous, Asynchronous, Interrupt Driven and DMA

Unit II: Interfacing Chips

(15 Periods)

Schematic Diagram (Functional Pin Diagram), Block diagram and Operating modes of the ICs- 8253, 8255, 8259, 8257, Control registers of 8255 and 8253

Unit III: Microprocessor Applications

(10 Periods)

Demultiplexing of AD₇-AD₀ bus, Interfacing concepts of I/O devices using decoder (74LS138), Chip Select logic, Generation of $\overline{\text{MEMR}}$, $\overline{\text{MEMW}}$, $\overline{\text{IOR}}$ and $\overline{\text{IOW}}$ signals, Tristate buffer (74LS244), Latches (74LS373), Interfacing switches, LED, relays

Unit IV: Data Converters

(10 Periods)

Interfacing of ADC 0808 & DAC 0808 using 8255

References:

1. Fundamentals Of Microprocessors and Microcomputers:
- B. Ram (Dhanpat Rai Publications)
2. Microprocessor Architecture, Programming And Applications With 8085:
- Ramesh S. Gaonker (3/e, Penram International Publishing)
3. Introduction to 8085, 8086 Microprocessors And Peripherals
- K. M. Bakwad & A. K. Deshmane (Nikita Publications, Latur)
4. Microprocessor:
- Borole and Vibhute (2/e, Technova Publications)

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)
B. Sc. Second Year (Semester – III & IV)
Semester Pattern effective from June -2017
Electronics
Practical Paper P-X: *Practical's based on P-VI & P-VIII*
(Annual practical's Based on [CCE III& IV (Section A & B)])

Credits: 02 (Marks: 50)

Periods : 45

Note:

1. Every student must perform at least TEN experiments (At least FIVE from each group)
2. Use graphs wherever necessary

List of Experiments:

Group I:

1. Op-Amp as Inverting Amplifier (DC Gain Verification)
2. Op-Amp as Non-inverting Amplifier (DC Gain Verification)
3. Op-Amp as Inverting Amplifier (Study of Frequency Response, Gain & -3db Band Width)
4. Op-Amp as Non-inverting Amplifier (Study of Frequency Response, Gain & -3db Band Width)
5. Op-Amp as Adder
6. Op-Amp as Subtractor
7. Op-Amp as Integrator
8. Op-Amp as Schmitt's Trigger
9. Op-Amp as Comparator
10. Op-amp as Analog Computer
11. IC555 Timer as Astable Multivibrator (Measurement of Pulse Width , Space Width, Time Period, Frequency and Mark to Space Ratio)
12. VCO using IC566 (Measurement of Frequency with Change in Control Voltage)

Group II:

13. Study of Transistorized CE Amplifier (Frequency Response, Gain & -3db Band Width)
14. Transistorized Hartley oscillator (Measurement of Frequency and Amplitude of Waveforms)
15. Transistorized Colpitt's Oscillator (Measurement of Frequency and Amplitude of Waveforms)
16. Transistorized Phase Shift Oscillator (Measurement of Frequency and Amplitude of Waveforms)
17. Wein Bridge Oscillator using Op-Amp (Measurement of Frequency and Amplitude of Waveforms)

18. Transistorized Astable Multivibrator.(Measurement of Pulse Width, Space Width, Time Period, Frequency and Duty Cycle)
19. Transistorized Mono stable multivibrator (Measurement of Gate Width)
20. Transistorized Bistable Multivibrator
- 21.** RC Ramp Generator using Transistor. (Measurement of Rise Time, Fall Time and Frequency)

Paper-XI
LAB-III
(Practical Based On Papers VII And IX)

(50 Marks)

Note:

1. Every student must perform at least 10 experiments.
2. Use flow-chart wherever necessary.

List of Experiments:

1. ALP to Transfer a block of data from one location to another location
2. ALP for addition of two byte and result 8-bit
3. ALP for addition of two byte and result 16-bit numbers
4. ALP for subtraction of two bytes
5. ALP for decimal addition of 8 bit numbers
6. ALP for 1's complement of 8-bit and 16-bit numbers
7. ALP to find 2's complement of 8-bit and 16-bit numbers
8. ALP for shifting of 8-bit number:
 - a. Left by one bit position
 - b. Left by two bit position
9. ALP to find sum of series of 8-bit numbers
10. ALP to find multiplication of two 8-bit numbers
11. ALP to find division of two 8-bit numbers
12. ALP for masking off:
 - a. Four LSBs of 8-bit numbers
 - b. Four MSBs of 8-bit numbers
13. ALP to find smallest number of the series
14. ALP to find largest number of the series
15. ALP to generate square wave using IC 8255. Determine frequency
16. Interfacing of 7-segment display with 8085 using IC 8255

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course Structure (New scheme)

B. Sc. Second Year (Semester – IV)

Semester Pattern effective from June -2017

Electronics

CCESI (Section A)

Skill Enhancement Course SEC I

Credits: 02 (Marks: 50)

Periods: 45

Skill Enhancement Course-I (Credit:2) B. Sc. III SEM

Physics Workshop Skill Credit: 02 45 Lectures (Theory + Lab)	Maximum Marks: 50 C. A. (Internal): 25 ESE OR Skill Exam:25
Maintain project file or Dissertation to check Analytic skills/ problem solving in skill exam	

UNIT-I: Mesaruement Skill : Measureing units, conversion to SI and CGS. Familiarization with meter scale, vernier caliper, Screw gauge and their vtility. Measure the dimension of solid bulk, volume of cylindrical beaker / glass, diameter of thin wire, thickness of metal sheet etc.
(15 Lectures)

UNIT-II: Electric and Electronic Skill : Use of multimeter, soldering of electrical circuits having discrete components (R, L, C, diode) and ICS on PCB. Operation of oscilloscope. Making regulated power supply. I Timer circuit, electronic switch using transistor and relay.
(15 Lectures)

Hands on Exercises:

(15 Lectures)

1. Meassurement of ac and dc voltages/ currents by using analogue multimeter
2. Measurement of ac and dc voltages / currents by using digital multimeter
3. Testing of electronic components by using multimeter such as diodes, transistors FETs etc.
4. Measurement of voltage, time period and frequency using CRO.
5. Measurement of rise and fall time using CRO.
6. Study wave forms generated by a function generator.

Reference Books:

1. A text book in Electrical technology – B L Theraja – S. Chand and Company.
2. Performance and design of AC machines – M.G. Say, ELBS Edn.
3. Mechanical workshop practice, K.C.John, 2010, PHI Learning Pvt. Ltd.
4. Workshop processes, Practices and Materials, Bruce J Black 2005, 3rd Edn., Editor Newnes [ISBN : 0750660732]
5. New Engineering Technology, Lawrence Smyth/Liam Hennessy, The Educational Company of Ireland [ISBN : 0861674480]

OR
Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)
B. Sc. Second Year (Semester – IV)
Semester Pattern effective from June -2017
Electronics
CCES II (Section B)
Skill Enhancement Course SEC II

Credits: 02 (Marks: 50)

Periods: 45

Skill Enhancement Course-I (Credit: 02) B. Sc. III SEM

Optics and Lasers	Maximum Marks: 50
Credit: 02	C. A. (Internal): 25
45 Lectures (Theory + Lab)	ESE OR Skill Exam:25
Maintain project file or Dissertation to check Analytic skills/ problem solving in skill exam	

UNIT-I: Semiconductor Sources and Detectors: Construction of LED, Working principle of LED, Types of LED, Construction of LDR, Working principle of LDR, Construction of photovoltaic cell & its working principle. **Polarization of Light:** Polarization of transverse wave, Plane of polarization, Brewster law, Malus law, specific rotation, Laurent's half shade polarimeter.
(10 Lectures)

UNIT-II: Refraction Through Lenses: Types of lenses, The sign convention, principal foci, Deviation produced by a thin lens, Power of a lens, Principal planes and focal planes, Dispersion by prism, Dispersive power, Huygens eyepiece, Ramsden eyepiece.
(10 Lectures)

UNIT-III: Laser: Lasers, spontaneous and stimulated emission, Theory of laser action, Einstein's coefficients, Light amplification, Characterization of laser beam, He-Ne laser, Semiconductor lasers.
(10 Lectures)

Hands on Exercises: (15 Lectures)

1. Determination of focal length of a biconvex lens.
2. Determination of radius of curvature of a lens using a spherometer.
3. Determination of power of a lens.
4. Determination of the grating radial spacing of a compact disc (CD) by reflection using a laser source.
5. To find the width of the slit using diffraction pattern obtained by a laser.
6. To find angle of polarization using Brewster law.
7. Study the characteristics of solid state laser.
8. Study the characteristics of LDR.

Reference Books:

1. Fundamentals of optics, F. A. Jenkins & H. E. White, 1981, Tata McGraw Hill.
2. LASERS: Fundamentals & applications, K. Thyagrajan & A. K. Ghatak, 2010, Tata McGraw Hill.
3. A Text Book of Optics, Brij Lal & Subramanyam, 1989, S Chand & Co
4. Laser & Non- linear optics, B. B. Laud, New Age International Publisher

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course Structure (New scheme)

B. Sc. Second Year (Semester – IV)

Semester Pattern effective from June -2017

Electronics

CCESI (Section A)

Skill Enhancement Course SEC II

Credits: 02 (Marks: 50)

Periods: 45

Skill Enhancement Course-II (Credit:2) B. Sc. IV SEM

Electrical Circuits & Network Skills	Maximum Marks: 50
Credit: 02	C. A. (Internal): 25
45 Lectures (Theory + Lab)	ESE OR Skill Exam:25
Maintain project file or Dissertation to check Analytic skills/ problem solving in skill exam	

UNIT-I: Basic Electricity principles : Voltage, current, Resistance, and power. Ohm's law. Series, parallel and series parallel combinations. AC and DC electricity, Familiarization with multimeter, voltmeter and ammeter.

Basic electric circuit elements and their combination.

(20 Lectures)

UNIT-II: Solid state Devices : Resistors, inductors and capacitors. Diode and rectifiers. Components in series or in shunt. Response of inductors and capacitors with DC or AC sources.

(10 Lectures)

Hands on Exercises:

(15 Lectures)

1. To Study charging and discharging of a condenser through resistor R.
2. Determinations of parameters of Op-Amp.
3. Study of transducers.(Thermistor, LDR, Photodiode photo transistor etc.)
4. Study frequency response of a microphone.
5. Soldering Skills.
6. Trouble Shooting of simple electronic circuits.
7. Design and development of low voltage power supply.
8. Solving differential equation by using Op-Amp.
9. Study of response of inductors and capacitors with DC or AC sources.
10. Study of capacitance by using LCR meter.

Reference Books:

1. Electrical circuits, K.A. Smith and R.E. Alley, 2014, Cambridge University Press.
2. A text book in Electrical Technology – B L Theraja – S Chand & Co.
3. A text book of Electrical Technology – A K Theraja
4. Performance and design of AC machines – M G Say ELBS Edn.

OR

Skill Enhancement Course-II (Credit: 02) B. Sc. IV SEM

Renewable Energy & Energy Harvesting	Maximum Marks: 50
Credit: 02	C. A. (Internal): 25
45 Lectures (Theory + Lab)	ESE OR Skill Exam:25
Maintain project file or Dissertation to check Analytic skills/ problem solving in skill exam	

UNIT-I: Solar Energy : Solar Energy, its importance, storage of solar energy, solar pond, non convective solar pond, applications of solar pond and solar energy, solar water heater, flat plate collector, solar distillation, solar cooker, solar green houses, solar cell, absorption air conditioning. Need and characteristics of photovoltaic (PV) systems, PV models and equivalent circuits, and sun tracking systems. **(15 Lectures)**

UNIT-II: Piezoelectric Energy harvesting : Introduction, physics and characteristics of piezoelectric effect, materials and mathematical description of piezoelectricity, Piezoelectric parameters and modeling piezoelectric generators, piezoelectric energy harvesting applications, Human power. **(15 Lectures)**

Hands on Exercises: (15 Lectures)

Demonstrations and Experiments

1. Demonstration of Training modules on Solar Energy, wind energy, etc.
2. Conversion of vibration to voltage using piezoelectric materials.
3. Conversion of thermal energy into voltage using thermoelectric modules.
4. Teacher can allot any exercise related with topic.

Reference Books:

1. Non-conventional energy sources, B.H. Khan, McGraw Hill.
2. Solar energy, Suhas P Sukhative, Tata McGraw – Hill Publishing Company Ltd.
3. Renewable Energy, power for a sustainable future, Godfrey Boyle, 3rd Edn., 2012, Oxford University Press.
4. Renewable Energy sources and Emerging Technologies, Kothari et. Al, 2nd Edition, PHI Learning.
5. Solar Energy : Resource Assesment Handbook, P Jayakumar, 2009.
6. J. Balfour, M. Shaw and S. Jarosek, Photovoltaics, Lawrence J Goodrich (USA)
7. http://en.wikipedia.org/wiki/renewable_energy.

Swami Ramanand Teerth Marathwada University, Nanded

Choice Based Credit System (CBCS) Course Structure (New scheme)

CLASS: B. Sc. THIRD YEAR

Subject: Electronics - Semester V&VI

(W. e. f. June 2018)

Semester	Paper No	Name of Course	Instruction Hours/Week	Total periods	CA	ESE	Total Marks	Credits
V	DECE-I (Section A)	Communication Electronics-I (P-XII) (Compulsory)	03	45	10	40	50	02
	DECE-I [(Section B) Elective]	Power Electronics-I (P-XIII- A) OR Introduction to Microcontroller(8051) (P-XIII-B)	03	45	10	40	50	02
	SEC-III	SEC-III(A): Linear Circuit Designing SEC-III(B): PCB Designing	3	45	25	25	50	02
VI	*DECE-II (Section A)	Communication Electronics-II (P-XIV) (Compulsory)	03	45	10	40	50	02
	DECE-II [(Section B) Elective]	Power Electronics-II (P-XV-A) OR Microcontroller 8051 Programming and Interfacing (P- XV-B)	03	45	10	40	50	02
	SEC-IV	SEC-IV(A): Digital Logic Design SEC-IV(B): Programming Skill in 'C'	3	45	25	25	50	02
V & VI	DECEP-I (Section A)	P-XVI	03	24	05	20	25	1
		Practicals based on P-XII						
		Practicals based on P-XIV						
	DECEP II (Section B)	P-XVII	03	24	05	20	25	1
		Practicals on P- XIII (A or B)						
		Practicals on P-XV(A or B)						
Total credits								16

*DECE – Discipline Specific Elective Course in Electronics

Outline of B. Sc. Third Year Electronics Course:

As Electronics has been consistently growing in terms of new technologies, ideas, principles and applications, the course is tailored to meet the demands of industry and market. The course is focused on industrial electronics where use of electric power, efficiency, power control, and automatic power control is of great importance. The wireless communication is now part of everybody's life. So, part of the syllabus is allocated to communication electronics. Some part is designated to practical techniques of creating and handling versatile and improved implements, such as microcontrollers, interfacing and embedded systems. The course is well-crafted to play as a bridge between basic sciences, applied sciences and technological disciplines.

The Course consists of :

1. TWO compulsory Courses (papers) on Communication Electronics as Discipline Specific Electives (DECEs), one for each semester.
2. The students have to choose ONE of the following options:
 - (i) TWO courses (papers) on Power Electronics as DECEs
 - (ii) TWO courses (papers) on Microcontrollers, ALP and Interfacing as DECEs.
3. FOUR Skill Enhancement Courses (SECs) have been designed for the students of Electronics as well as from other allied disciplines. The SECs are designed to train the students to acquire skills in related field and to increase the employability. SECs impart lot of hands on practice and handling of testing and measuring instruments. Each student has to opt one SEC for each semester.
4. The four SECs are as follows:
 - (i) Linear Circuit Designing
 - (ii) PCB Designing
 - (iii) Digital Logic Designing
 - (iv) Programming Skill in C
5. The Lab Courses (Practicals) are designed such that it improves the understanding of theory courses DECEs and SECs.

Learning Objectives:

The learning objectives are given in the beginning of syllabus for each course (paper).

Utility of the course:

1. Upon completion of this course students will acquire in-depth understanding of Communication Electronics, Industrial Electronics, Microcontrollers, Assembly Language Programming, and Interfacing.
2. The students can be employed in the field of power sector, defence services, TV and music industry, automisation, IT, optical communication.
3. They can work as :
 - Electronic Circuit Designer
 - Electronic Consultant (Installation and maintenance of Electronic consumer Products)
 - An Entrepreneur
4. They readily can compete for advanced courses like M. Sc. (Electronics), M. Phil.(Electronics), MBA.

Pre-Requisites for the Course:

1. The student seeking admission to B. Sc. TY Electronics Course must have completed successfully B. Sc. FY and B. Sc. SY Electronics Courses, where they are exposed to the basic electronic principles, components, devices and their characteristics.
2. They must be competent to handle various testing and measuring instruments of electronics labs.
3. They must have skills of constructing, soldering and de-soldering of given circuits.
4. TWO Skill Enhancement Courses (SECs) are designed(one for each semester) such that any student of B. Sc. TY from any other science discipline can choose from.

Paper-XII: Communication Electronics-I

Credit :02	Maximum Marks: 50
Periods: 45	C.A. (Internal): 10
	ESE : 40

Learning objectives:

1. To study basics of communication systems.
2. To study and understand the analog modulation techniques (Amplitude and Frequency).
3. To study and understand the basics of Analog pulse modulation.
4. To study the Digital pulse modulation.

Unit I: Basics of Communication Systems

(07 periods)

Introduction, Block diagram of Communication System, Classification of Communication Systems: Direction, Nature of signal and Technique of transmission, Need for Modulation, Types of Modulation, Bandwidth. (Numerical Problems)

Unit II: Amplitude Modulation

(18 periods)

Amplitude Modulation Theory, Mathematical representation of AM wave, Modulation index, Frequency spectrum of AM wave, Bandwidth of AM, Power relations in AM wave, AM circuits: Basic circuit for BJT Collector modulation, Amplitude demodulator circuit. (Numerical Problems)

Unit III: Frequency Modulation

(10 periods)

Theory of Frequency modulation, Mathematical Representation of FM wave, Bandwidth, Generation of FM, Direct method for FM generation, Transistor reactance modulator, Varactor reactance modulator. (Numerical Problems)

Unit IV: Pulse Modulation

(10 periods)

Introduction, Classification of Pulse modulation systems, Sampling theorem, Nyquist criteria, Basic principles of Pulse-Amplitude modulation (PAM), Pulse-Width modulation(PWM), Pulse-Position modulation (PPM), Generation and detection of PAM only, **Digital pulse modulation**: Pulse-Code modulation (PCM) PCM transmitter, PCM receiver and quantization process, quantization error, application, advantages and disadvantages of PCM. (Numerical Problems)

References:

1. Electronic Communications, Dennis Roddy and John Coolen (Fourth Edition), PHI Publication.
2. Electronic Communication Systems, George Kennedy, (Third Edition), Mc GrawHill International Edition.
3. Communication Engineering, J.S. Katre, Technova Educational Publications, Pune.

Paper XIII (A) Power Electronics – I

Credit :02	Maximum Marks: 50
Periods: 45	C.A. (Internal): 10
	ESE : 40

Learning objectives:

- 1) To introduce Thyristor family,
- 2) To study construction and characteristics of SCR, DIAC, TRIAC, UJT, and MOSFETs
- 3) To study different triggering techniques for SCR.
- 4) To study SCRs connected in series and parallel.
- 5) To study static equalising network and dynamic equalising network.

UNIT -I : Thyristor : Principles and characteristics : (15 periods)

Principle of operation of SCR, Static Anode - Cathode Characteristics of SCR, The two transistor model of SCR, Thyristor Construction, gate characteristics of SCR, Turn on methods of a thyristor. [Numerical]

UNIT – II : Power semiconductor devices : (8 periods)

Power semiconductor devices, structure and V-I characteristics of DIAC, TRIAC, Power MOSFET & IGBT, Symbol and V-I characteristics of SUS, SBS, SCS & LASCR (Numericals)

UNIT – III : Gate triggering circuits : (10 periods)

Introduction, firing of thyristors, gate current amplitude and rise time, gate pulse duration, pulse waveforms, Pulse transformers, pulse transformer in triggering circuits, Gate trigger circuits, resistance firing circuits, resistance - capacitance firing circuit, resistor - Capacitor - full - wave trigger circuit, UJT as an SCR trigger [Numerical]

UNIT - IV: Series and parallel operation of Thyristors : (12 periods)

Introduction, series operation of Thyristors, need for equalising network, unequal distribution of voltage, difference in reverse recovery characteristics, equalising network design, static equalising network, dynamic equalising network, parallel operation of thyristors, methods for ensuring proper current sharing, string efficiency, derating (Numerical)

References:

- 1) Power Electronics, M.D. Singh & K.B. Khanchandani (2nd Edition), Mc Graw Hill - education.
- 2) Power Electronics, Muhammad H. Rashid (4th edition), Pearson.
- 3) Power Electronics (Revised edition), K. Haribabu, Scitech Publication.
- 4) Industrial Electronics & Control, S.K. Bhattacharya, S. Chatterjee, TTTI, Chandigarh
- 5) Power electronics, P.C. Sen, Mc Graw Hill – education

Paper-XIII (B) Introduction to Microcontroller 8051

Credit :02	Maximum Marks: 50
Periods: 45	C.A. (Internal): 10
	ESE : 40

Learning Objectives:

1. To know the difference between a microprocessor and a microcontroller.
2. To study architecture of microcontroller 8051
3. To study the instruction set of 8051
4. To study structure of Assembly Language Program for 8051

Unit-I: Microprocessors to Microcontrollers (03 Lectures)

Block Diagram of a microprocessor, Block Diagram of a microcontroller, Comparison between microprocessor and microcontroller.

Unit-II: Introduction to Microcontroller 8051 (15 Lectures)

Features, Pin diagram, functional pin diagram and pin description, Architecture, Reset, Memory organization, CPU timings.

Unit-III: Instruction Set of Microcontroller 8051 (15 Lectures)

Addressing modes, Data transfer Instructions, Arithmetic Instructions, Logical Instructions, Branch Instructions, Bit Manipulation Instructions

Unit-IV: Assembly Language Programming For Microcontroller 8051 (12 Lectures)

Introduction to 8051 Assembly programming, Assembling and running an 8051 program, The Program Counter and ROM space in 8051, 8051 Data types and Directives, Simple Assembly Language Programs for 8051.

Reference Books:

1. The 8051 Microcontroller - Kenneth Ayala – Cengage Learning India Private Limited - (3/e)
2. Microprocessors and Microcontrollers - U. S. Shah - Tech-Max Publications, Pune (Revised 2/e)
3. 8051 Microcontroller: Hardware, Software and Applications
V. Udayshankara and M. S. Mulikarjun Swamy – McGraw Hill
4. The 8051 Microcontroller and Embedded Systems Using Assembly and C
-M. A. Mazidi, J. G. Mazidi and R. D. McKinlay – Pearson – (2/e)

Skill Enhance Course –III (A): Linear Circuit Designing

Credit :02	Maximum Marks: 50
Periods: 45 (Theory + Lab)	C.A. (Internal): 25
	ESE or Skill Exam : 25

Objectives:

- 1) To know basics of some electronic components and circuits of practical importance.
- 2) To equip the students with skill of circuit designing for a given requirement.
- 3) To impart hands on practice: circuit assembling, testing and troubleshooting.

Unit I:

(Periods: 10)

LED interfacing to given source, designing of buffer for LED interfacing with ICs such as 7476, 8255 etc., voltage clipper, voltage clamper, designing of single stage C-E amplifier (class A).

Unit II:

(Periods: 20)

Designing of Colpitt's oscillator, Phase-shift oscillator, designing of fixed voltage regulators using ICs 78XX and 79XX, study of load regulation and line regulation of a given power supply, designing of constant current source.

Hands-on Exercises:

(15 Lectures)

- 1) Design the circuit to interface LED of $V_d = \dots V$, to a voltage source $V = \dots V$. Take maximum LED current 10 mA.
- 2) Design the buffer amplifier to interface LED to some TTL chip operating at 5 V and can source only 40 micro ampere. Take $V_d = \dots V$ and $I_d = 10 \text{ mA}$.
- 3) Design voltage clipper to clip the given waveform at $V = +\dots V$ or $-\dots V$.
- 4) Design waveform clamper to clamp the given waveform at $V = +2V$
- 5) Design single stage RC coupled CE amplifier for the gain of $A = -10$.
- 6) Design and build the fixed voltage regulator for $V_o = +5V / 1 \text{ A}$, using IC 7805
- 7) Design and build the split-power supply for Op-Amp = $+12V$ n $-12V$ using ICs 7812 and 7912.
- 8) Study the load regulation of given power supply.
- 9) Study the line regulation of given power supply.
- 10) Design and build the constant current source of 1 mA, operating at $=12V$ for the load which varies over 0 - 5 Kohms.
- 11) Design and build the Colpitt's oscillator / RC Phase shift oscillator for a given frequency.

Reference Books:

1. *Electronic Principle* -by Albert Malvino, David J. Bates, 7th Edition, TMH, 2007 (5th Reprint,2008)
2. *Grob's Basic Electronics* -by Mitchel E. Schultz, 10th Edition, TMH, New Delhi, Rs 585/-
3. *Electronic Devices and Circuits* -by I. J. Nagrath, PHI, 2007, Rs 325/-
4. *Electronic Devices* -by Thomas Floyd, 6th Edition(4th Reprint), PEARSON Education, 2005

Web Resources:

1. https://www.electronics-tutorials.ws/diode/diode_8.html
2. <https://www.elprocus.com/types-of-clipper-and-clamper-circuits-and-application/>
3. https://www.electronics-tutorials.ws/amplifier/amp_2.html
4. <https://www.engineersgarage.com/contribution/ambhatt/how-to-design-regulated-power-supply>
5. <http://www.radio-electronics.com/info/circuits/transistor/active-constant-current-source.php>

Skill Enhance Course –III (B): PCB Designing

Credit :02	Maximum Marks: 50
Periods: 45 (Theory + Lab)	C.A. (Internal): 25
	ESE or Skill Exam : 25

Learning Objectives:

1. To equip students with circuit drawing.
2. To know various steps involved in PCB production.
3. To know and handling of various tools and software used for PCB designing.

Utility of the Course :

On completion of this course, students can -

1. work as PCB Designer for a given circuit.
2. assemble, solder, de-solder on PCB.
3. start his own business as PCB manufacturer or supplier.

Prerequisites:

1. Any B.Sc. TY student from any science discipline.
2. TY students having knowledge of electronic circuits and components.

UNIT-I: PCB Designing

(15 Lectures)

Introduction to PCB: Evolution & Classification, Manufacturing of PCB: Single sided and double sided, Layout planning and design: Reading drawings and diagrams, General PCB design considerations, Conductor patterns, Component placement Rules.

UNIT-II Soldering Methods

(15 Lectures)

What is soldering, theory of soldering, Soldering variables, Soldering material, Soldering and Brazing, Soldering tools, Other hand soldering tools, Hand soldering: Requirements & steps, Health and safety Aspects, De-soldering techniques, Etching techniques: Immersion etching, drilling: drill bit geometry and its importance.

Hands-on Exercises:

(15 Lectures)

1. Drilling and Soldering Practice.
2. Layout printing on copper clad.
3. Designing of PCB through etching.
Preparing PCB for
 - i. Half Wave Rectifier
 - ii. Full wave Rectifier
 - iii. Capacitor filter
 - iv. Single stage CE amplifier
 - v. NAND gate using 7400

- vi. NOR gate using 7402
- vii. Basic gates using NAND gate

Recommended Books:

1. Printed circuit boards: design, fabrication, assembly and testing- R.S.Khandpur
2. Electronic Product Design- Er.S.D.Mehta, Volume I, S. Chand Publications

Paper-XIV: Communication Electronics-II

Credit :02 Periods: 45	Maximum Marks: 50 C.A. (Internal): 10 ESE : 40
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Learning objectives:

1. To study basics of Radio Receivers.
2. To understand the basics about the Microwaves.
3. To learn the RADAR systems
4. To Study the concepts in Mobile communication
5. To understand the optical fibres and study the optical fibre communication systems.

Unit I: Radio Receivers

(10 periods)

Introduction, Basic block diagram of communication receiver, Tuned Radio Frequency (TRF) Receiver, Super Heterodyne Receiver, Characteristics of Radio receivers, Sensitivity, Selectivity, Fidelity, Image frequency and its rejection, Double spotting. (Numerical Problems)

Unit II: Microwaves & Radar Systems

(15 periods)

Introduction to microwave properties and applications of microwaves, Basic principles of radar system, Block diagram of basic pulsed radar system, Radar range equation, Moving target indication, CW Doppler radar. (Numerical Problems)

Unit III: Introduction to Mobile Communication

(5 Periods)

Historical perspectives, Cellular Systems, Third Generation (3G) Systems, Fourth-Generation (4G) Systems.

Unit IV: Introduction to Optical Fibres

(15 periods)

Fibre Optics, Structure of Optical Fibres, Classification of Optical Fibres, Propagation of Light, Refraction and Snell's law, Total Internal Reflection, Light Propagation through an Optical Fibre, Acceptance Angle and Numerical Aperture, Dispersion, Intermodal Dispersion, Fibre Characteristics, Fibre Losses, Calculation of Losses, Choice of Wavelength, Fibre Optic Communications, Applications of Fibre Optic Communication, Advantages of Optic Fibres, Disadvantages of Optic Fibres.(Numerical Problems)

References:

1. Electronic Communications, Dennis Roddy and John Coolen (Fourth Edition), PHI Publication.
2. Electronic Communication Systems, George Kennedy, (Third Edition), McGraw Hill International Edition.
3. Microwave Engineering-Sanjeeva and Gupta
4. Optical Fibres and Fibre Optic Communication Systems, S.K. Sarkar, S.Chand and Company Ltd., New Delhi.
5. Optical Fiber Communications: Principles & Practice – John M Senior, III edition PHI
6. Communication Engineering, J.S. Katre, Technova Educational Publications, Pune.
7. Basic Electronics (Solid State) [Multicolour Illustrative Edition] B.L. Theraja (S. Chand &Co. Ltd.)
8. Mobile Satellite Communication Networks: Ray E. Sherrif& Y. Fun Hu (Wiley India)
9. Wireless & Cellular Telecommunications: -Wiliam C. Y. Lee (3/e, McGraw Hill)
10. Wireless Communications, Andrea Goldsmith, Cambridge University Press, 2015.
11. Web Reference: 1G, 2G, 3G, 4G, 5G –by Simon Johansen (http://its-wiki.no/images/c/c8/From_1G_to_5G_Simon.pdf)

Paper XV (A) Power Electronics – II

Credit :02	Maximum Marks: 50
Periods: 45	C.A. (Internal): 10
	ESE : 40

Learning Objectives:

- 1) To understand the operation of single phase half controlled and fully controlled converters.
- 2) To understand working of choppers and inverters.
- 3) To construct & study working of some power control circuits used in industry.

UNIT – I : Phase controlled Converters

(17 periods)

Introduction, control techniques, phase angle control, extinction angle control, pulse width modulation control, Single-phase fullwave controlled rectifier (Two-quadrant Converters) :Mid-point converters (M-2 Connection) with resistive load, with inductive load, effect of freewheeling diode, Bridge configuration (B-2 connection) with resistive load, with inductive load (R-L load) Single-Phase half controlled Bridge rectifier: Half controlled bridge rectifier with resistive load (symmetrical configuration), Half controlled Bridge rectifier with R-L load. (Symmetrical configuration) [Numerical]

UNIT - II : Thyristor Control Circuits

(10 periods)

Introduction, phase - control circuits for regulating temperature, remote temperature controller, Illumination control using DIAC & TRIAC, Light activated turnoff circuit using DIAC, TRIAC and LDR, OFF at dark circuit, emergency light using SCR, Automatic water level indicator using SCR

UNIT – III : Choppers

(10 periods)

Introduction, Basic chopper classification, Basic chopper operation: Principle of step down chopper (buck converter), principle of step up chopper, Control Strategies : Time Ratio control (TRC) current limit control. [Numerical]

UNIT - IV : Inverters :

(8 Periods)

Introduction, classification of Inverters, Series Inverters: Basic series inverter, modified series inverter, parallel inverter [Numerical]

References:

- 1) Power Electronics, M.D. Singh & K.B. Khanchandani (2nd Edition), Mc Graw Hill - education.
- 2) Power Electronics, Muhammad H. Rashid (4th edition), Pearson.
- 3) Power Electronics (Revised edition), K. Haribabu, Scitech Publication.
- 4) Industrial Electronics & Control, S.K. Bhattacharya, S. Chatterjee, TTTI, Chandigarh
- 5) Power electronics, P.C. Sen, Mc Graw Hill – education

Paper-XV (B) Microcontroller 8051 Programming and Interfacing

Credit :02	Maximum Marks: 50
Periods: 45	C.A. (Internal): 10
	ESE : 40

Learning Objectives:

1. To study I/O Port programming of 8051.
2. To know Timer/Counter programming of 8051.
3. To study Serial Port programming of 8051.
4. To study interrupt programming of 8051.
5. To acquire basic knowledge of interfacing various peripheral devices to 8051.

Unit-I: I/O Port Programming and Timer Programming (15 Lectures)

I/O Port Programming: 8051 I/O Programming, I/O Bit Manipulation Programming, Programming Examples, Timer Programming: Programming 8051 Timers, Counter programming, Programming Examples.

Unit-II: Serial Port Programming (08 Lectures)

Basics of Serial Communication, 8051 Connection to RS232, 8051 Serial Port Programming, Programming Examples

Unit-III: Interrupt Programming (10 Lectures)

8051 Interrupts, Programming Timer Interrupts, Programming External Hardware Interrupts, Programming the Serial Communication Interrupt, Interrupt priority in 8051, Programming Examples.

Unit-IV: Interfacing (12 Lectures)

Interfacing of Switches, Relays, LEDs, LCDs, Stepper Motor, DAC 0808, ADC 0808, External Memory and IC8255 with Microcontroller 8051.

Reference Books:

1. The 8051 Microcontroller - Kenneth Ayala – Cengage Learning India Private Limited - (3/e)
2. Microprocessors and Microcontrollers - U. S. Shah - Tech-Max Publications, Pune (Revised 2/e)
3. 8051 Microcontroller: Hardware, Software and Applications
V. Udayshankara and M. S. Mulikarjun Swamy – McGraw Hill
4. The 8051 Microcontroller and Embedded Systems Using Assembly and C
-M. A. Mazidi, J. G. Mazidi and R. D. McKinlay – Pearson – (2/e)

Skill Enhance Course –IV(A): Digital Logic Design (DLD)

Credit :02	Maximum Marks: 50
Periods: 45 (Theory + Lab)	C.A. (Internal): 25
	ESE or Skill Exam : 25

Learning Objectives:

1. To know fundamentals of Digital Logic Design.
2. To study designing of a given combinational logic circuit.
3. To study designing of a given sequential logic circuit.
4. To get fundamental knowledge of PLDs.

Unit-I: Combinational and Sequential Logic Design

(18 Lectures)

Combinational Logic Design:

Overview of Logic Gates and Boolean Algebra, Forms of logic representation: SOP form, POS form, Truth table, Minterm form, Maxterm form, Logic diagram and their inter-conversions, Methods Logic Implementation: AOI, NAND, and NOR and their inter-conversions, Techniques of Minimization of Logic Expressions: K-Map Technique, Quine-McCluskey method, Exercises of Combinational logic Design.

Sequential Logic Design:

Overview of Flip flops, Counters and Shift registers, Exercises of Sequential logic Design

Unit-II: Programmable Logic Devices (PLDs)

(12 Lectures)

Introduction, Simple PLDs (SPLDs), Programmable Logic Array (PLA), Programmable Array Logic (PAL), Generic Array Logic (GAL), Complex PLDs (CPLDs), Field Programmable Gate Arrays (FPGAs)

Hands-on Exercises:

(15 Lectures)

1. Conversion of one form of logic into other forms
2. Conversion of AOI implementation into NAND implementation
3. Conversion of AOI implementation into NOR implementation
4. Minimization of a logic expression using K-Map techniques
5. Minimization of a logic expression using Quine-McCluskey method
6. Designing and AOI implementation of at least four combinational logic circuits
7. Designing and implementation of at least four sequential logic circuits

Reference Books:

1. Digital Fundamentals- Floyd & Jain- Pearson- (8/e)
2. Modern Digital Electronics- R P Jain- TMH- (3/e)
3. Digital Electronics with Practical Approach- Publications- (1/e) G N Shinde- Shivani

Skill Enhance Course –IV(B): Programming Skill in C

Credit :02 Periods: 45 (Theory + Lab)	Maximum Marks: 50 C.A. (Internal): 25 ESE or Skill Exam : 25
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Learning Objectives:

1. To understand fundamentals of C language
2. To study the use of decision making & looping control structure.
3. To Study the functions, arrays, string in C language.
4. To develop software skill by writing programs in ‘C’ based on some problems.

Utility of the Course :

On completion of this course, students can -

1. Write C program for any given task.
2. Can develop his own software for a given problem, research work etc.

Prerequisites:

1. Any B.Sc. TY student from any science discipline.
2. TY student who is interested in computer programming, software development.

Unit –I Fundamentals of C

(15 periods)

Introduction, Character set, ‘C’ Tokens, Keywords & Identifiers, Data types, Constant, Variables, Operators- Arithmetic, logical, relational, assignment, increment, decrement, conditional. Input/Output Statement, Structure of C program. **Decision & looping, control structure:** Statements - If, If-Else statement, Nested If-Else, Switch. Entry and exit controlled loops – While, Do-While and For loop.

Unit –II Arrays and Functions

(15 periods)

Introduction to Array, One-dimensional arrays: Declaration & Initialization, Two-dimensional arrays: Declaration & Initialization, **Functions:** Definition of function, function with arguments and without arguments, Strings in ‘C’, Standard Library string functions: strlen(), strcpy(), strcmp(), strcat().

Hands on Exercises (Practical):**(15 periods)**

- 1) Write, Compile and Run a programs in C to enter any two numbers and performs arithmetic operations (+, -, *, /).
- 2) Write Compile and Run a program in C to find Resistance of a circuit when two resistance are connected in a) series and b) parallel.
- 3) Write, Compile and Run a programs in C to determine simple interest using formula:
 $S.I. = P * N * R/100$ (P – Principal amount, N- No. of months, R- Rate of interest)
- 4) Write Compile and Run a program in C to find given integer number is odd or even.
- 5) Write Compile and Run a program in C to find factorial of given number.
- 6) Write Compile and Run a program in C to find summation of set of numbers.
- 7) Write Compile and Run a program in C to print Fibonacci series as follows:
0,1,1,2,3,5,8,13,21,34,.....
(Note: Every number in series is sum of preceding two numbers.)
- 8) Write Compile and Run programs in C to print an array in reverse order.
- 9) Write Compile and Run a program in C to find sum of array element.
- 10) Write Compile and Run a program in C to find maximum or minimum element from array.

Reference Books:

1. C programming by B. Gottfried, Schaum's outline series
2. Programming in ANSI C by E. Balaguruswamy, TATA MCGRAW Hill Publication.
3. Let US C by Yeshwant Kanetkar, BPB Publication.
4. The C-Programming language, Brian Kernighan, & Dennis Ritchie, Pearson Education India.
5. C the Complete Reference, Herbert Schildt, Osborne publication.

Web Resources:

1. www.spoken-tutorial.org
2. www.onlinecourses.nptel.ac.in
3. <https://www.programiz.com/c-programming/examples>
4. <https://www.javatpoint.com/c-programs>
5. <https://www.tutorialspoint.com/cprogramming/index.htm>

Paper-XVI: Practicals Based On P- XII and XIV

Credits: 02

Marks: 50

Note:

1. Every student must perform at least Ten experiments
2. Use graphs wherever necessary

List of Experiments:

1. Study of Class–C Amplitude Modulation and Measurement of Efficiency, Percentage Modulation Index
2. Study of Linear Diode Detector and Measurement of Detection Efficiency
3. Study of Frequency Response of Two Stage IF Amplifier
4. Study of Frequency Response of Audio Amplifier.
5. Study of Class B Push–Pull Amplifier using Complimentary Symmetry and Determination of Efficiency
6. Study of RF Mixer using BF 194 Transistor
7. Study of FM Modulation using IC 566
8. Study of FM Demodulator.
9. Study of Pulse Amplitude Modulation
10. Study of Pulse Position Modulation
11. Study of Pulse Width Modulation
12. Study of Pulse Code Modulation
13. Measurement of Numerical Aperture of Optical Fiber
14. Study the Bending Loss of an Optical Fiber
15. Study of the Characteristics of Laser LED
16. Study of Photo-Diode Detector Characteristics (Use Avalanche Photo Diode)
17. Study of Transmission and Reception through Optical Fiber

Paper XVII (A): Practical Based On P-XIII (A) and XV (A)

Credits: 02

Marks: 50

Note:

1. Every student must perform at least Ten experiments.
2. Use graphs wherever necessary.

List of Experiments:

1. Uni-junction Transistor Characteristics
2. UJT relaxation oscillator
3. Firing characteristics of SCR.
4. Half wave gate controlled rectifier using one SCR
5. Firing of single SCR using UJT
6. Firing of two SCRs by a UJT.
7. Phase control circuit using SCR
8. Characteristics of DIAC.
9. Firing characteristics of a TRIAC
10. Illumination control using DIAC and TRIAC
11. Light activated turnoff circuit using LDR and SCR
12. Light activated turn off circuit using DIAC-TRIAC and LDR
13. Inverter using SCR and measurement of frequency, output power.
14. Study of simple Chopper circuit/step-up chopper circuit and measurement of on-time, off-time, output voltage.

Paper XVII (B): Practical Based On P- XIII (B) and XV (B)
Credits: 02

Marks: 50

Every student must perform at least Ten Experiments from the following List

List of Experiments (Assembly Language Programs: ALPs)

1. ALP to add two 8-bit numbers
2. ALP to add two 16-bit numbers
3. ALP to subtract two 8-bit numbers
4. ALP to subtract two 16-bit numbers
5. ALP to multiply two 8-bit numbers
6. ALP to divide two 8-bit numbers
7. ALP to determine 1's complement of an 8-bit number
8. ALP to determine 1's complement of a 16-bit number
9. ALP to determine 2's complement of an 8-bit number
10. ALP to determine 2's complement of a 16-bit number
11. ALP to logically AND two 8-bit numbers
12. ALP to logically OR two 8-bit numbers
13. ALP to logically XOR two 8-bit numbers
14. ALP to convert an 8-bit Binary number to Gray
15. ALP to convert an 8-bit Gray number to Binary
16. ALP to find smallest of two 8-bit numbers
17. ALP to find largest of two 8-bit numbers
18. ALP to unpack an unpacked BCD number
19. ALP to determine sum of a series of numbers
20. ALP to move a block of data from one area of memory to another area of the memory
21. ALP to create a square wave at P_{1.0}
22. ALP to flash an LED connected to P_{3.1} with the time delay of 1 Sec using timer T₁ in Mode-2
23. ALP to interface a Relay and make it ON/OFF repeatedly with the time delay of 1 Sec
24. ALP to Interface 7-segment display unit to 8051 to generate desired character
25. ALP to interface Stepper motor to rotate CW/ACW with given number of steps per revolution
26. ALP to interface DAC 0808 / ADC 0808.

Question Paper Pattern for Practical Course (Annual Exam)

Practical Paper Nos. P-XVI and P-XVII

Total Marks : 50

I) CA (Internal Exam) : 10 marks (Separate Mark List be submitted by college Internal Examiner)

(i) Test exam /Assignment : 05 marks

(ii) Record Book / Journal : 05 marks

II) ESE: 40 marks (Awarded at the time of University Annual Practical Exam), Duration 3 Hrs : Every student is required to perform one complete experiment. The scheme of marks is as follows:

(i) Circuit diagram : 10 marks

(ii) Construction of circuit : 10 marks

(iii) Observations /Calculations/
Graphs/Result/Conclusion etc. : 15 marks

(iv) Viva-voce : 05 marks

Question Paper Pattern for B.Sc. Third Year Exam(Semester V and VI), for all theory papers:

Time : 2 Hr

Max Marks: 40

Note: ALL questions are compulsory and carry equal marks

Question 1 - Attempt any FOUR.(each of 2 marks) 8 marks

- i)
- ii)
- iii)
- iv)
- v)
- vi)

(Note: This question will be based on entire syllabus)

Question 2 - Attempt any TWO of the following (each of 4 marks) 8 marks

- a.
- b.
- c.

(Note: This question will be based on Unit I and Unit II, with a minimum of 1 sub-question and a maximum of 2 sub-questions from each unit)

Question 3 - Attempt any ONE of the following (each of 8 marks) 8 marks

- a.
- b.

(Note: This question will be based on Unit I and Unit II, with one sub-question from each unit)

Question 4 - Attempt any TWO of the following (each of 4 marks) 8 marks

- a.
- b.
- c.

(Note: This question will be based on Unit III and Unit IV, with a minimum of 1 sub-question and a maximum of 2 sub-questions from each unit)

Question 5 - Attempt any ONE of the following (each of 8 marks) 8 marks

- a.
- b.

(Note: This questions will be based on Unit III and Unit IV, with one sub-question from each unit)

SYLLABUS OF COURSES TO BE OFFERED

Skill Enhancement Course

Preamble

The University Grants Commission (UGC) has initiated several measures to bring equity, efficiency and excellence in the Higher Education System of country. The important measures taken to enhance academic standards and quality in higher education include innovation and improvements in curriculum, teaching-learning process, examination and evaluation systems, besides governance and other matters. The UGC has formulated various regulations and guidelines from time to time to improve the higher education system and maintain minimum standards and quality across the Higher Educational Institutions (HEIs) in India. The academic reforms recommended by the UGC in the recent past have led to overall improvement in the higher education system. However, due to lot of diversity in the system of higher education, there are multiple approaches followed by universities towards examination, evaluation and grading system. While the HEIs must have the flexibility and freedom in designing the examination and evaluation methods that best fits the curriculum, syllabi and teaching-learning methods, there is a need to devise a sensible system for awarding the grades based on the performance of students. Presently the performance of the students is reported using the conventional system of marks secured in the examinations or grades or both. The conversion from marks to letter grades and the letter grades used vary widely across the HEIs in the country. This creates difficulty for the academia and the employers to understand and infer the performance of the students graduating from different universities and colleges based on grades. The grading system is considered to be better than the conventional marks system and hence it has been followed in the top institutions in India and abroad. So it is desirable to introduce uniform grading system. This will facilitate student mobility across institutions within and across countries and also enable potential employers to assess the performance of students. To bring in the desired uniformity, in grading system and method for computing the cumulative grade point average (CGPA) based on the performance of students in the examinations, the UGC has formulated these guidelines.

CHOICE BASED CREDIT SYSTEM (CBCS):

The CBCS provides an opportunity for the students to choose courses from the prescribed courses comprising core, elective/minor or skill based courses. The courses can be evaluated following the grading system, which is considered to be better than the conventional marks system. Therefore, it is necessary to introduce uniform grading system in the entire higher education in India. This will benefit the students to move across institutions within India to begin with and across countries. The uniform grading system will also enable potential employers in assessing the performance of the candidates. In order to bring uniformity in evaluation system and computation of the Cumulative Grade Point Average (CGPA) based on student's performance in examinations, the UGC has formulated the guidelines to be followed.

Swami Ramanand Teerth Marathwada University,
Nanded

CBCS Pattern

**B. Sc. Second Year
(Semester III & IV)**

ENVIRONMENTAL SCIENCE

w.e.f: June, 2017

Swami Ramanand Teerth Marathwada University, Nanded
Choice Based Credit System (CBCS) Course Structure
Faculty of Science
B. Sc. Second Year Syllabus
Semester Pattern effective from June 2017
Subject: Environmental Science

Semester	Course No.	Name of the Course	Instruction Hrs/ week	Total period	CA	ESE	Total Marks	Credits
III	CCENV III (Section A)	Basic concepts in Environmental Microbiology (P-VI)	03	45	10	40	50	2
	CCENV III (Section B)	Air pollution and Meteorology (P-VII)	03	45	10	40	50	2
	CCENV II [CCENV III & IV (Section A)]	Practical's based on P-VI & P-VIII (P-X)	03 03	Practical's 08 08	05 05	20 20	25 25	1 1
	CCENV I	SEC I (Anyone Skill from optional)	02	02	25	25	50	(02)*
IV	CCENV IV (Section A)	Applied Environmental Microbiology (P-VIII)	03	45	10	40	50	2
	CCENV IV(Section B)	Air and Noise pollution control (PIX)	03	45	10	40	50	2
	CCENV III [CCENV III & IV (Section B)]	Practical's based on P-VII & P-IX (P-XI)	03 03	Practical's 08 08	05 05	20 20	25 25	1 1
	CCENV II	SEC II (Anyone Skill from optional)	02	02	25	25	50	(02)*
Total credits semester III and IV								12(04)*

Note: ESE of CCENV PII, CCENV PIII & CCENV I, CCENV II should be evaluated at annual.

Swami Ramanand Teerth Marathwada University, Nanded
Choice Based Credit System (CBCS) Course Structure (New Scheme)
B. Sc. (Second Year) Semester - III
Effective From- June -2017
CCENV III (Section A)

Basic Concepts in Environmental Microbiology (P- VI)

Credits: 02

(Marks: 50)

Periods: 45

Unit I History , Diversity and Scope of Microbiology: Beginning of Microbiology, Scope of Microbiology, Importance of microbiology, Contributions of Antony van Leeuwenhoek, Louis Pasteur, Robert Koch, Alexander Fleming, The theory of spontaneous generation, Whittaker s Five kingdom concept. General characteristics, Morphological Features and Significance: Virus, Bacteria Algae, Fungi and Protozoa Branches of microbiology: Food Microbiology, Dairy Microbiology, Industrial Microbiology, Pharmaceutical Microbiology, Microbial Ecology, Medical Microbiology, Agricultural Microbiology, Geo-microbiology.

Unit II Growth and Reproduction of Bacteria: Concept of Growth and reproduction, Mechanism of binary Fission, Growth, Growth rate and Generation time, Growth curve of bacterial population and its practical applications, Quantitative measurement of bacterial growth, Structure & Function of: Glycocalyx, Flagella, Pilli, Cell Wall (Gram positive, Gram negative and Acid fast), Cytoplasmic membrane, Mesosomes, Nucleoid, Plasmid, Ribosomes (70S), Cytoplasmic inclusions, PHB granule, glycogen, carbohydrates, Magnetosomes, gas vesicles, chromosome, sulphur granules and endospore (germination, sporulation) Anatomy of Eukaryotic cell: Ultra-structure of Fungal, Algal and Protozoa Cell

Structure, Function and Chemical Composition of: Flagella, Cell wall (Fungi and algae), Nucleus, Mitochondria, Chloroplast, Golgi bodies, Ribosome(80S), Lysosome, comparison: pro & eukaryotes.

Unit III Microscopy and Staining: Microscope, Types (Light and Electron Overview), Magnification, Resolution, Numerical Aperture, Use of Oil immersion objective,

Compound Microscope: Principle, Working and Significance, Concept and Types of Stains (Acidic and Basic stain, Mordant), Smear Preparation, Simple (Monochrome and Negative) and Differential staining Gram and Acid fast staining. Nutritional Requirements

Classification of bacteria based on: Nutrition, Physical Factors: pH, Temperature, water activity, aeration (Oxygen) Chemical factors: Media, Types of media, Media Ingredients (water, Malt extract, Meat extract, Yeast extract, Trace elements).

References

01. General microbiology Volume I & II: C. B. Powar & H. F. Dagainawala (Himalaya publishing House, Mumbai), 2002
02. Fundamental principles of Bacteriology: A. J. Salle, (Tata McGraw-Hill Publishing Company, New Delhi), 1974
03. Microbiology: P. D. Sharma (Rastogi publication Meerut)
04. Microbiology: Pelczer, Reid & Chan (Tata McGraw-Hill Publishing Company Limited, New Delhi),
05. Hand book of Microbiology: Yu. S. Krivashein (Mir Publishers Moscow)
06. Microbiology for Environmental Engineering: M. C. Kinnery (Tata McGraw-Hill Publishing Company New Delhi),
07. Introduction to Virology: S. B. Biswas
08. General microbiology: Stainier
09. Applied Microbiology: Kale & Kishore Bhusari (Himalaya Publishing House, Mumbai) 10. Medical Microbiology: Day & Day and Anantnarayan

Swami Ramanand Teerth Marathwada University, Nanded
Choice Based Credit System (CBCS) Course Structure (New Scheme)
B. Sc. (Second Year) Semester-III
Effective From- June -2017
CCENV III (Section B)

Air Pollution and Meteorology (P- VII)

Credits: 02

(Marks: 50)

Periods: 45

Unit I : Atmosphere & Meteorology : Structure of Atmosphere, Wind speed, direction and their vertical profiles, turbulence (mechanical and thermal), atmospheric stability characteristics and classes, Plume behavior, effects of micrometeorology on point source emission, wind-valley effects, land/sea breeze-effects, heat island effect, mixing height-boundary layer definition, temperature inversions, factors affecting on dispersion of air pollutants, micro meteorological instruments (10)

Unit II : Types of Air Pollutants and Their Sources: Natural contaminants: Aerosols, Dust, Smoke, Mist, Fog, Fumes, Particulate matter (PM), Suspended particulate matter (SPM), Respirable suspended particulate matter (RSPM), Fly ash, Photochemical smog;

Gaseous air pollutants: Sulphur dioxide, hydrogen sulphide, Hydrogen fluorides, Chlorine, Oxides of nitrogen, Carbon monoxide, Aldehydes, Organic vapors, Tetra ethyl lead, Radioactive gases. Natural sources: Volcano, Accidental fires in forests, Dust storms, Oceans; **Bio pollutants:** Pollen bio pollutants, Algal bio pollutants, Fungal bio pollutants, Combustion; **Stationary sources:** Fertilizer complex, Cement industries, Thermal power stations, Sulphuric acid industry, Fluoride industry, Nitric acid plants, Soap and detergent industry, Petroleum and Coal industry, Iron and steel industry, Stone and Clay products, Kraft pulp manufacturing, Incineration of refuse and solid wastes; Mobile sources: Automobiles, Aero planes. , HAPs (hazardous air pollutants), Indoor pollution- different sources. (20)

Unit III : Air Pollution Effects: Effects of air pollution on human health: Mechanism of action of air pollutants, Human health effects, Specific air pollutants and their health effects, Major Disasters showing health effects: Meuse Valley (Belgium disaster, Donora (USA) disaster, London disaster, Los Angeles disaster, Effects of air pollution on Animals: Effects of Fluorine, Arsenic, Lead, Pests, Ionizing radiation. Effects of Air pollution on Plants: Structure of normal leaf, Air pollutants affecting plants, Forms of damages to leaves, Kinds of injuries to plants, Effects of specific pollutants on plants: HF, Ozone, Chlorine, Hydrogen chloride, Nitric oxides, Ammonia, Hydrogen cyanide, Herbicides.

Economic effects of Air Pollution: Mechanism of deterioration in polluted atmosphere, Factors influencing atmospheric deterioration, Material damage : Effects on Building materials, Paints,

Textiles, Rubber, Leather, Paper, Glass and ceramics, Effects on art treasure, Long term effects on the planet : Green house effects, Ozone layer depletion, Acid rain (15)

References:

01. Air Pollution and its control: Sumit Malhotra (Pointer Publishers, Jaipur)
02. Air Pollution: M. N. Rao (Tata McGraw – Hill publishing company, New Delhi)
03. Air Pollution: B. K. Sharma, H. Kaur (Krishna Prakashan media, Meerut)
04. Pollution of our Atmosphere: B. Henderson, (Sellers Adam Hilger Limited, Bristol)
05. Fundamentals of Air Pollution: Richard W. Bowel, Donald L. Fox, D. Bruce Tunner and Arthur C. Stern (Academic Press, California)
06. Air Pollution Control Engineering: Noel De Nevers (McGraw – Hill Intl, New York)
07. Air Pollution: S. K. Agarawal (A. P. H. Publishing Corporation, New Delhi)
08. Air Pollution: V. P. Kudesia Pragati Prakashan, Meerut)
09. General climatology: Critichfield H. J.
10. Climatology: Fundamentals and Applications: Mater J. R.
11. Climatology: Selected Applications: Henry D. Foth
12. Introduction to weather and climate: Trewartha
13. The Atmosphere: An Introduction to Meterology: Fedrik K. Lutgen, E. J. Tarbuck
14. Air Pollution (Volume I to X): A. C. Stern (Academic Press)
15. General Meteorology: H. R. Byers (Tata Mc Grew – Hill Publications, New Delhi)

Swami Ramanand Teerth Marathwada University, Nanded
Choice Based Credit System (CBCS) Course Structure (New Scheme)
B. Sc. (Second Year) Semester- III
Effective From- June -2017
CCENV IV (Section A)

Applied Environmental Microbiology (P-VIII)

Credits: 02

(Marks: 50)

Periods: 45

Unit I: Methods in Microbiology: Pure culture technique: Streak plate, Pour plate, spread plate and Roll tube method. Slide culture techniques for fungi, Isolation and Cultivation of Algae.

Unit II: Sterilization Methods: Concept of Sterilization, Micro-biocide, Micro-biostatic, Sterilization by Physical agents –Dry heat (Hot air oven, Incineration) and Moist heat (Autoclave, Tyndalization), Radiation- (X-rays, Gamma rays,

Chemical Sterilization : Ethylene oxide, Formaldehyde, Sterilization by Filtration Membrane filter, Control of Microbes: Disinfection Concept of Disinfectant, Antiseptic, Sanitizer, Germicide, Antibiotics, Significance of following in control of microorganisms: Pasteurization, Ultraviolet light, Low Temperature, Desiccation, Osmotic pressure, Surface tension, Characteristics of an ideal antimicrobial chemical agent, Mode of action and application of Phenol and Phenolic compounds, Alcohols, Halogens, Heavy metals and their compounds, Dyes, Detergents, Quaternary ammonium compounds, H₂O₂.

Unit III: Air Microbiology, Microflora of air, Enumeration of bacteria in air: Liquid impingement, Solid impingement, Water microbiology, Microbial indicators of water pollution. Bacteriological examination of potable water (Presumptive, Confirmative and Completed tests) Soil Microbiology Soil Microflora, Rhizosphere. Role of microbes in carbon cycle; Role of microbes in Nitrogen cycle: Ammonification, Nitrification, Nitrate reduction, Denitrification, Nitrogen fixation, Symbiotic nitrogen fixation, Non symbiotic nitrogen fixation,; Role of microbes in Sulphur cycle. Food Microbiology: Initial contamination of fresh food, Microbial spoilage of foods, Preservation of foods, Microbiological examination of foods, Fermented foods, Food poisoning. Microbiology of milk: Sources of microorganisms in milk, Types of microorganisms in milk, Microbial examination of milk, Pasteurization of milk

References:

01. General microbiology, Volume I & II: C. B. Powar & H. F. Daginawala (Himalaya Publishing House, Mumbai), 2002
02. Fundamental principles of Bacteriology: A. J. Salle, (Tata McGraw-Hill Publishing Company, New Delhi), 1974
03. Microbiology: P. D. Sharma (Rastogi publication Meerut)
04. Microbiology: Pelczer, Reid & Chan (Tata McGraw-Hill Publishing Company Ltd, New Delhi),
05. Hand book of Microbiology: Yu. S. Krivashein (Mir Publishers Moscow)
06. Microbiology for Environmental Engineering: M. C. Kinnery (Tata McGraw-Hill Publishing Company New Delhi),
07. Introduction to Virology: S. B. Biswas
08. General Microbiology: Stainier
09. Applied Microbiology: Kale and Kishore Bhusari (Himalaya Publishing House, Mumbai)
10. Medical Microbiology: Day & Day and Anantnarayan

Swami Ramanand Teerth Marathwada University, Nanded
Choice Based Credit System (CBCS) Course Structure (New Scheme)
B. Sc. (Second Year) Semester- III
Effective From- June -2017
CCENV IV (Section B)

Air and Noise Pollution Control (P-IX)

Credits: 02

(Marks: 50)

Periods: 45

Unit I: Ambient Air Pollutants Sampling, Analysis and Measurement: Sampling methods:

Sedimentation, Filtration, Impingement method, Electrostatic precipitation, Thermal precipitation, Centrifugal method, Particulate matter sampling and analysis: Dust fall measurement, SPM and RSPM sampling using High volume air sampler; Gaseous pollutants sampling and analysis: Carbon monoxide, Ozone, Hydrogen sulphide, Nitrogen dioxide, Sulphur dioxide, Hydrogen cyanide, Ammonia, Aldehydes. (15)

Unit II:

Air Pollution Control: Particulate emission control: Gravity settlers, Cyclone separators, Fabric filters, Electrostatic precipitators, Wet scrubbers; Gaseous emission control: Principles of absorption and adsorption; Packed towers, Plate towers, Spray towers; Odour control: Combustion: Removal methods: removal of Sulfur dioxide, Nitrogen oxides, Hydrocarbons. (15)

Unit III: Noise Pollution:

Introduction, Mechanism of hearing, Physiological response to noise, Sources of Noise, Effects of Noise Pollution :Speech interference, Physiological effects, Behavioral effects, Annoyance, Effects on efficiency, Fatigue, Mental health effects, Hearing loss, Biological effects, Noise level measurement, Noise and vibration Control: Barrier and enclosures, Silencers, Vibration dumping, Vibration isolation. (15)

References:

01. Air Pollution and its control: Sumit Malhotra (Pointer publishers, Jaipur)
02. Air Pollution: M. N. Rao (Tata McGraw – Hill publishing company, New Delhi)
03. Air Pollution: B. K. Sharma, H. Kaur (Krishna Prakashan Media, Meerut)
04. Pollution of our Atmosphere: B. Henderson, (Sellers Adam Hilger Limited, Bristol)

05. Fundamentals of Air Pollution: Richard W. Bowel, Donald L. Fox, D. Bruce Tunner and Arthur C. Stern (Academic Press, California)
06. Air Pollution control Engineering: Noel De Nevers (McGraw – Hill Intl, New York)
07. Air Pollution: S. K. Agarawal (A. P. H. Publishing Corporation, New Delhi)
08. Air Pollution: V. P. Kudesia (Pragati Prakashan, Meerut)
09. Introduction to weather and climate: Trewartha
10. Air Pollution (Volume I to X): A. C. Stern (Academic Press)

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New Scheme)
B. Sc. (Second year) Semester Pattern effective from June -2017
Environmental Science

Practical Paper: CCENV II [CCENV III & IV (Section A)]

Credits: 02

(Marks: 50)

(Annual practical Based on [CCENV III & IV (Section A)] (Practical syllabus requires four periods per batch per week for 2 consecutive days.

01. Study of Microscope.
02. Study of Laboratory equipments (Incubator, Hot air oven, Autoclave Inoculating chamber, Centrifuge).
03. Acquainting basic microbiology tools: Cleaning and washing of Glassware, Wrapping the items prior Sterilization, Cotton Plugging, Aseptic handling (LAF/Bunsen burner), Inoculation of bacterial culture, Biological Waste Disposal
04. Preparation and sterilization of culture media.
05. Study of Bacteria (Types).
06. Isolation of bacteria from Soil.
07. Isolation of Fungi from Soil.
08. Observation of motility of organisms by hanging drop technique.
09. Monochrome staining.
10. Differential (Gram's) staining.
11. Negative staining.
12. Isolation of bacteria by Streak plate, Pour plate, Spread plate method.
13. Total Viable Count of Water.
14. Determination of Total Coliforms from water.
15. Differentiation between Fecal and non fecal Coliforms by IMViC test.
16. Determination of Quality of Milk by Methylene Blue Reductase test.
17. Effect of pH on growth of bacteria
18. Qualitative test for protein by Biuret test.
19. Qualitative test for carbohydrate by Benedict's test.
20. Effect of temperature on grown of bacteria

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New Scheme)
B. Sc. (Second year) Semester Pattern effective from June -2017
Environmental Science
Practical Paper: CCENV III [CCENV III & IV (Section B)]

(Annual Practical Based on CCENV III [CCENV III & IV (Section B)]) (Practical syllabus requires
four periods per batch per week for 2 consecutive days

Credits: 02

(Marks: 50)

-
01. Study of High Volume Air Sampler.
 02. Study of Rotorod Air Sampler and Tilak Air Sampler.
 03. Dust Fall measurement by tiles exposure method.
 04. Determination of Carbon Di Oxide (CO₂) by Zincondroff Technique.
 05. Determination of Carbon monoxide (CO) by Co detector.
 06. Detection of SO₂ from ambient air.
 07. Detection of H₂S from ambient air.
 08. Detection of Ammonia from ambient air.
 09. Interpretation of wind rose diagram.
 10. Determination of wind velocity.
 11. Determination of Air pollution index.
 12. Determination of Suspended Particulate Matter by HVAS.
 13. Determination of Respirable Suspended Particulate Matter by HVAS.
 14. Estimation of SO_x from air by High Volume Air Sampler and Spectrophotometer.
 15. Estimation of NO_x from air by High Volume Air Sampler and Spectrophotometer.
 16. Estimation of Ammonia from air by High Volume Air Sampler and Spectrophotometer.
 17. To Study the effects of SO₂ on plant.
 18. To Study the effects of H₂S on plant.
 19. To Study the effects of Ammonia on plant.
 20. Determination of Noise Level by dB meter

Swami Ramanand Teerth Marathwada University, Nanded
Choice Based Credit System (CBCS) Course Structure (New Scheme)
B. Sc. (Second year) Semester Pattern effective from June -2017

Practical Paper: CCENVP-I (P-V)

(Annual practical Based on [CCENVP VIII (Section A)])

(Practical syllabus requires four periods per batch per week. Second Year Practical's based on Microbiology)

Credits: 02

(Marks: 50)

- Q. 1: Stain the bacterial culture by Monochrome / Gram's / Negative staining Technique. 10
- Q. 2: Determine number of Total Coliforms / Fecal Coliforms from provided sample. 10
OR
Differentiate between Fecal Coliforms and Non fecal Coliforms by IMViC test
OR
Determine Total Viable Count of Bacteria from provided water sample
- Q.3: Determine the quality of milk by Methylene blue Reductase test. 10
OR
Isolate Azatobacter species from provided soil sample.
OR
Observe the motility of the microorganisms by hanging drop technique.
OR
Isolate bacteria / Fungi from provided soil sample.
- Q. 4: Isolate Bacteria from provided sample by Streak / Pour / Spread plate method. 10
OR
Test protein qualitatively by Biuret test.
OR
Test carbohydrates qualitatively by Benedict's test.
- Q. 5: a) Record Book submission 05
b) Viva Voce 05

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New Scheme)
B. Sc. (Second year) Semester Pattern effective from June -2017

Practical Paper: CCENVP-I (P-V)

(Annual practical Based on [CCENVP IX (Section B)])

(Practical syllabus requires four periods per batch per week. Second Year Practical's based on Microbiology)

Credits: 02

(Marks: 50)

Q. 1: Determine Suspended Particulate Matter / Respirable Suspended Particulate Matter by High Volume Air Sampler (HVAS). 10

OR

Estimate SO_x / NO_x from air by High Volume Air Sampler and Spectrophotometer

Q. 2: Determine Dust Fall rate by tiles exposure method. 10

OR

Determine Carbon Di Oxide (CO_2) from air by Zincondroff Technique.

Q 3 : Detect of $SO_2 / H_2S / Ammonia$ from ambient air by Qualitative tests. 10

OR

Interpret wind rose diagram / Determine wind velocity.

OR

Determine Co by Co detector from ambient air.

Q. 4: Determine Noise Level of the ambient air by dB meter. 10

OR

Determine Air pollution index.

OR

Study the Effects of $SO_2 / H_2S / Ammonia$ on plant material.

Q. 5: a) Record Book submission 05

b) Excursion Report 05

Swami Ramanand Teerth Marathwada University, Nanded
Choice Based Credit System (CBCS) Course Structure
Faculty of Science
B. Sc. (Second Year) Environmental Science, Syllabus
Semester Pattern effective from June 2017

Salient features of the skill:

The important measures taken to enhance academic standards and quality in higher education include innovation and improvements in curriculum, teaching-learning process, and examination and evaluation systems. The UGC has formulated various regulations and guidelines from time to time to improve the higher education system and maintain minimum standards and quality across the Higher Educational Institutions (HEIs) in India.

Environmental science is multidisciplinary subject, various areas are there where students can serve for nature and society, the skill courses can provide the specific and scientific knowledge in environmental science. The course will help to assess prior basic knowledge at U.G. level. The main aim of the skill based course is to trend the students in wide range of environmental sciences based skills that provide the learning base of future career in various discipline in the subject.

Utility: At the end of the course, student should be –

1. Able to analyze study report on material learned
2. Able to assess the scope of environmental sciences and select appropriate area for further study
3. Able to integrate related topics from separate part of the course

Learning Objectives:

1. The prime aim to provide and acquainted various courses in environmental sciences.
2. To promote for training in practical and conceptual skills in the subject
3. To improve students for global competition and their chances of employment.
4. To equip students with adequate practical knowledge, that will enable them be self reliant in various allied courses
5. To equip students with adequate techniques that will enable them towards the perfections for national and global economics.

Swami Ramanand Teerth Marathwada University, Nanded
Choice Based Credit System (CBCS) Course Structure (New Scheme)
B. Sc. (Second Year) Semester- III
Effective From- June -2017

1. Skill Enhancement Course CCENV-I (A)

Soil Testing Analyst

2 Credits

Theory

(Lectures: 30)

Objectives of Course: Soil testing analyst work like laboratory technician, who is responsible for collecting and analyzing soil samples to determine whether the soil is suitable for agricultural practices, gardening or plantation or natural uses. Students can also find courses in soil testing or similar topics that provide information about soil

The main objective of the course is to provide the student with a formalized way to build their fundamental knowledge and skills within the different areas of soil science to enhance their professional skills

Syllabus to be covered:

Physical properties of Soil: Density, Porosity, Permeability, Temperature, Soil water, Soil atmosphere;

Chemical properties of Soil: Hydrogen ion concentration, Organic matter, Inorganic elements; Soil fauna and Soil flora;

Agents of soil Erosion: Running water, Glaciers, Wind, Sea water, Deforestation and Overgrazing;

Types of erosion: Sheet erosion, Rill erosion, Gully erosion, Slip erosion (land slide), Wind erosion;

Soil conservation practices: chemical and physical characteristics of soils, Classification and Morphology, how soil is formed and soil conservation.

Context:

- Soil testing analyst are often responsible for setting up testing equipment
- Need to be able to make their way through different types of ground to get to their testing sites.
- Practical's to be covered are justifying the syllabus like colour, temperature, density, consistency, micro and macro nutrients with N.P.K.
- Need to be able to meet with clients or team members at the site or testing facility
- Soil testing technicians must be able to work well as part of a team of other technicians and scientists. They must also be good listeners so they can carefully follow directions to help them avoid making procedural mistakes. Coursework in written and oral communication can also help students gain the skills they need to file written reports on their findings.

Analyst is expected to writing reports, maintaining libraries and databases of information, preparing notes and surveying for natural resources, and these tasks are carried out in offices and labs, as well as in the field. On-site work can take extended periods of time and may need to be conducted regardless of weather conditions.

References:

The Nature and Properties of Soils (Brady and Weil; Pierson/Prentice Hall Publisher) The current edition is the 14th edition

website: <https://www.soils.org/files/certifications/fundamentals-exam-objectives.pdf>

Hand Book of Methods in Env. Studies by S.K. MAITI ABD Publishers, Jaipur, India
81-85771-58-8

Environmental Science Principle & Pract. R.C. Das & Behera Prentice Hall of India Pvt. ltd.
New Delhi 978-81-203-3330-7

Swami Ramanand Teerth Marathwada University, Nanded.
Choice Based Credit System (CBCS) Course Structure (New Scheme)
B. Sc. (Second Year) Semester- III
Effective From- June -2017
CCENV III (Section B)

2. Skill Enhancement Course CCENV-I (A)

Training Course for Water Quality Assessment 2 Credits

Theory

Lectures: 30

Objectives: The main objective of course is to improve the awareness and skills of the students in modern techniques of analysis of water for research and extension activities. Use of instruments and their general upkeep/maintenance, interpretation of analytical data and formulation of reports/recommendations...

Syllabus to be covered: The course is designed to cover water characteristics, testing techniques and methods of interpretation of data, so as to make it more useful in the context of global competition in quality and precision of analysis

The course contents: Sources of water, distributions and types of water, various physic-chemical and biological characteristics of water, water conservation practices, water Acts etc

The course context:

- Collect samples in scientific way from residential plumbing and municipal distribution systems for analysis
- Take physical tests like (Colour, pH, Temp etc) at the spot and use preservatives for further analysis
- Conduct chemical tests of samples in lab (e.g. Alkalinity, Hardness, TDS, DO, COD, fluoride and some heavy metals as possible as.
- Conduct biological tests of samples like MPN, SPC, Faecal and non-faecal coliform
- To conduct chlorine residual or turbidity tests
- Compare the obtained values with WHO, CPCB or BSI standards

References:

- Hand Book of Methods in Env. Studies by S. K. MAITI, ABD Publishers, Jaipur, India.
- Instrumental Methods of Chemical Analysis G. R. Chatwal and Anand Himalaya Publishing house, New Delhi
- Environmental Science Principle & Pract. R. C. Das & Behera Prentice Hall of India Pvt. Ltd. New Delhi

Swami Ramanand Teerth Marathwada University, Nanded.
Choice Based Credit System (CBCS) Course Structure (New Scheme)
B. Sc. (Second Year) Semester-IV
Effective From- June -2017 CCENV III (Section B)

3. Skill Enhancement Course CCENV-II (B)

Composting from Solid Waste

2 Credits

Theory

Lectures: 30

Objectives: The main objective of course is to improve the awareness and skills of the students with modern techniques of collections, transportations and analysis of solid waste materials for production of organic manure and research activities. Use of instruments and their general maintenance, interpretation of analytical data and formulation of reports/recommendations

Syllabus to be covered: The course is designed to covered sources, types, solid waste collection methods and testing techniques and methods of interpretation of data, so as to make it more useful

The course contents: Definition of solid waste , sources types , solid waste collection methods and Introduction to vermiculture, definition, meaning, history, The species of earthworms; local species of earthworms, choosing the right and useful earthworm. Economic importance and its role in maintaining soil status. Role of earthworms in production of organic fertilizers, what are the environmental factors require. The matter and humus cycle (product, qualities), Ground population, transformation process in organic matter.

The course context:

- Collect samples in scientific way from residential , municipal and agricultural areas for systematic analysis
- Use appropriate technique for segregation of the material
- Study the construction of pits to be used for the composting
- Give the scientific treatment to the solid waste
- Study the marketing technique

Books Recommended:

1. Vermis and Vermitechnology by Arvind Kumar, A. P. H. Pub., New Delhi-110002.
2. Earthworms-Vermiculture & Vermicomposting by R. K. Bhatnagar & R. K. Palta, Kalyani Pub, New Delhi, Kolkata, Hyderabad.
3. A hand book of organic farming by A. K. Sharma, Agrobios (India), Jodhpur
4. A handbook of soil, fertilizer and manure by P. K. Gupta, Agrobios (India), Jodhpur
5. Organic farming in India-problems and practice by U. Thapa & P. Tripathy, Agro Pub. Aca, Udaipur.
6. Organic Farming for sustainable agriculture by A. K. Dahama, Agrobios (India), Jodhpur

Swami Ramanand Teerth Marathwada University, Nanded
Choice Based Credit System (CBCS) Course Structure (New Scheme)
B. Sc. (Second Year) Semester-IV

Effective From- June -2017 CCENV III (Section B)

4. Skill Enhancement Course CCENV-II (B)

Advanced study in Soil Science

Theory

Lectures: 30

Objectives: The course is designed to give the student an in-depth understanding of the soil. A basic knowledge of soil science and soil physics as a discipline is assumed. On this basis, the main aim is to trend the students to run the consultancy for farmers. The course will give a fundamental understanding of the methods used to describe soil properties and soil physical processes.

The course contents: The course starts with a review of soil structure, including the interaction between mineral particles, organic material and soil biomass in a self-organizing system.

Soil pore structure is described in relation to its water and air content and includes a thorough review of the concept of water potential. There is focus on describing and understanding soil water-holding and water-transporting properties and their importance for soil physical characteristics and also as a medium for plant growth.

The latest knowledge on diffusive and convective transport of water and air is presented in relation to both pore characterization and important transport processes in soil,

The course context:

- Collect different types of soil samples in scientific way from the region by identifying the structural and morphological differences in soil.
- Determine the physical properties of soil (color, texture, density, porosity, permeability)
- Check the fertility based characters by analyzing (nutrient status, NPK, Minerals etc)
- Consult farmers and suggest remedy accordingly.
- Study the marketing technique

Books recommended:

1. A handbook of soil, fertilizer and manure by P. K. Gupta, Agrobios (India), Jodhpur
2. Organic farming in India-Problems and Practice by U. Thapa & P. Tripathy, Agro pub. Academy, Udaipur.
3. Organic Farming for Sustainable Agriculture by A. K. Dahama, Agrobios (India), Jodhpur
4. Environmental Science Principle & Pract. R. C. Das & Behera Prentice Hall of India Pvt. Ltd. New Delhi.

Swami Ramanand Teerth Marathwada University, Nanded
Choice Based Credit System (CBCS) Course Structure (New Scheme)
B. Sc. (Second Year) Semester- III
Effective From- June -2017
Skill Enhancement Course -01

Soil Testing Analyst

Theory

Lectures: 30

Soil testing analyst work like laboratory technician, who is responsible for collecting and analyzing soil samples to determine whether the soil is suitable for agricultural practices, gardening or plantation or natural uses.

Students can also find courses in soil testing or similar topics that provide information about the chemical and physical characteristics of soils, Classification and Morphology, how soil is formed and soil conservation.

- Soil testing analyst are often responsible for setting up testing equipment
- Need to be able to make their way through different types of ground to get to their testing sites.
- Need to be able to meet with clients or team members at the site or testing facility
- Soil testing technicians must be able to work well as part of a team of other technicians and scientists. They must also be good listeners so they can carefully follow directions to help them avoid making procedural mistakes. Coursework in written and oral communication can also help students gain the skills they need to file written reports on their findings.

Analyst is expected to writing reports, maintaining libraries and databases of information, preparing notes and surveying for natural resources, and these tasks are carried out in offices and labs, as well as in the field. On-site work can take extended periods of time and may need to be conducted regardless of weather conditions.

The main objective of the course is to provide the student with a formalized way to build their fundamental knowledge and skills within the different areas of soil science to enhance their professional skills.

References:

The Nature and Properties of Soils (Brady and Weil; Pierson/Prentice Hall Publisher) The current edition is the 14th edition.

website: <https://www.soils.org/files/certifications/fundamentals-exam-objectives.pdf>

Hand Book of Methods in Env. Studies by S.K. MAITI ABD Publishers, Jaipur, India
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Environmental Science Principle & Pract. R. C. Das & Behera Prentice Hall of India Pvt. Ltd.
New Delhi 978-81-203-3330-7

Swami Ramanand Teerth Marathwada University, Nanded
Choice Based Credit System (CBCS) Course Structure (New Scheme)
B. Sc. (Second Year) Semester - III
Effective From- June -2017
CCENV III (Section B)

Skill Enhancement Course -02

Training course for Water Quality Assessment

Theory

Lectures: 30

The main objective of course is to improve the awareness and skills of the students in modern techniques of analysis of water for research and extension activities. Use of instruments and their general upkeep/maintenance, interpretation of analytical data and formulation of reports/recommendations. The course is designed to cover water characteristics, testing techniques and methods of interpretation of data, so as to make it more useful in the context of global competition in quality and precision of analysis..

About the Course:

The course will cover some theory lectures on topics most relevant to the subject along with appropriate number of practical exercises with greater emphasis on analytical techniques adopting a demonstration and learning-by-doing type of approach. Interpretation of test results and formulation of recommendations and/or reports will be a vital component.

The course context:

- Collect samples in scientific way from residential plumbing and municipal distribution systems for analysis
- Take physical tests like (Colour, pH, Temp etc) at the spot and use preservatives for further analysis
- Conduct chemical tests of samples in lab (e.g. Alkalinity, Hardness, TDS, DO, COD etc with biological tests) as possible as.
- To conduct chlorine residual or turbidity tests
- Compare the obtained values with WHO, CPCB or BSI Standards

References:

Hand Book of Methods in Env. Studies by S.K. MAITI ABD Publishers, Jaipur, India.

Instrumental methods of chem. Analysis G. R. Chatwal and Anand Himalaya publishing house, New Delhi.

Environmental Science Principle & Pract. R. C. Das & Behera Prentice Hall of India pvt. Ltd. New Delhi.

Swami Ramanand Teerth Marathwada University, Nanded
Choice Based Credit System (CBCS) Course Structure (New Scheme)

B. Sc.(Second Year) Semester-III

Effective From- June -2017

CCENV III (Section B)

Skill Enhancement Course -03

**Composting From Solid Waste
(Waste Managee)**

Theory

Lectures: 30

Unit I:

Definition of solid waste, sources types, solid waste collection methods. Introduction to vermiculture, definition, meaning, history, the species of earthworms; local species of earthworms, choosing right and useful earthworm, economic important, their value in maintenance of soil status.

Unit II:

Role of earthworms in production of organic fertilizers, what are the environmental factors requires

Unit III:

The matter and humus cycle (product, qualities), Ground population, transformation process in organic matter.

Books recommended:

1. Verms & Vermitechnology by Arvind Kumar, A. P. H. Pub., New Delhi-110002.
2. Earthworms-Vermiculture & Vermicomposting by R. K. Bhatnagar & R. K. Palta, Kalyani Pub, New Delhi, Kolkata, Hyderabad.
3. A hand book of organic farming by A. K. Sharma, Agrobios (India), Jodhpur
4. A handbook of soil, fertilizer and manure by P. K. Gupta, Agrobios (India), Jodhpur
5. Organic farming in India-problems and practice by U. Thapa and P. Tripathy, Agro Pub. Academy, Udaipur.
6. Organic Farming for sustainable agriculture by A. K. Dahama, Agrobios (India), Jodhpur.

Swami Ramanand Teerth Marathwada University, Nanded.

Choice Based Credit System (CBCS) Course Structure

B. Sc. (Second Year) Semester-III

Effective From- June -2017

Environmental Science

Skill Enhancement Course 4

Environmental Audit

2 Credits

Objectives:

- To provide students with information in order to obtain competencies for environmental auditing
- To develop ability to plan, execute and document the environmental audit.
- To develop entrepreneurial skills

Unit I Understanding Pollution:

Definition; pollution, Air Pollution: Air pollutants —Sources, primary and secondary pollutants and particulate matter, HAPs (hazardous air pollutants), Indoor pollution- different sources. Water Pollution: Sources- direct and indirect, impact of pollution on water bodies groundwater pollution – sources and effects. Wastes: Source, characteristics, types, and fate of solid wastes. Metal pollution: Metals in soil, food and water, elementary idea on metal pollution. Noise Pollution: General features, sources, noise classification, effects of sound pollution. Radiation Pollution: Man-made radiation, radiation hazards, nuclear accidents. Pesticide Pollution: Definition; sources, categories, pesticides in water and effects; elementary idea on IPM. Soil Pollution: Sources, types, effects of soil pollution

Unit II Protection of Environment:

International concerns and efforts for environmental protection; role of United Nations; Stockholm summit; priority issues; Rio Summit: Sustainable Development; Earth day; Environment day; ecotourism

Unit IV Environmental Audit:

Introduction: Definition; types of auditing, Features of Effective Auditing, Programme planning and organization of Auditing Programme, Pre visit data collection, Auditing Protocol, Onsite Audit; Data Sampling; Inspection and

Evaluation and Presentation, Audit Report; Action plan, Management of Audit, Benefits of Environmental Audit, Environmental Audit Programme in India.

Practice: Any one industries case study from following:-

Construction, Metal Processing, Pharmaceutical, Electrical, Electronic, Fertilizer, Pesticide, any regional Industry.

References:

Environmental science by S. C. Santra, New Central Book Agency London, Third Edition, 2015.

Humphrey N, Hadley M (2000) Environmental Auditing, Palladian Law Publishing Ltd, Cambridge, Isle of Wight.

Hunt D, Johnson C (1995) Environmental Management Systems, McGraw Hill, London.

International Chamber of Commerce (1989), *Environmental Auditing*, June 1989, ICC Publication No 468, International Chamber of Commerce (ICC), Paris.

International Chamber of Commerce (1991), *ICC Guide to Effective Environmental Auditing*. ICC Publication No 483, International Chamber of Commerce (ICC), Paris

Smets H (1988) The cost of accidental pollution.



***Swami Ramanand Teerth
Marathwada University, Nanded.***

***Revised Curriculum
B. Sc. Third year***

(Semester V & VI)

Environmental Science

W.e.f. : June, 2018.

Swami Ramanand Teerth Marathwada University, Nanded.
Syllabus Structure

B.Sc. Third year : **Environmental Science**

Sem.	Course No.	Name of the Course	Instruction Hrs / Week	Total Period	Internal Evaluation	Marks of semester	Total Marks	Credits
V SEM	DSEENV I (Section A)	Water Pollution and Waste Water Analysis (P-XII)	03	45	10	40	50	2
	DSEENV I [(Section B I) OR DSEENV I (Section B II)	Environmental Instrumentation- I (P-XIII) OR Environmental Education and Biodiversity	03	45	10	40	50	2
	SECENV III	SEC III Soil conservation Practices			50	-	50	(2)*
VI SEM	DSEENV II (Section A)	Waste water Engineering P – XIV	03	45	10	40	50	2
	DSEENV II [(Section B I) OR DSEENV II (Section B II)	Environmental Instrumentation-II (P - XV) OR Environmental Management	03	45	10	40	50	2
	SECENV IV	Sec IV Waste Water Analysis Techniques			50	-	50	(2)*
Annual Pract	DSEENV I [DECMB I & II Section A]	Practical's based on P-XII, & PXIV (P-XVI)	04	20 Practical	10	40	50	2
	DSEENV I & II Section B)	Practical's based on P-XIII & P-XV (P - XVII)	04	20 Practical	10	40	50	2
Total Credits Semester V & VI								12 (4)*

DSEENV – Discipline Specific Elective Environmental Science
DCEENVP - Discipline Specific Elective Environmental Science Practical
SECENV - Skill Enhancement Course Environmental Science

DECENV I (Section A) :
Water pollution and Waste water Analysis
P - XII

Salient Features :

01. To study various sources of water and waste water.
02. To understand it's quality through physico – chemical and biological characters

Objectives: To understand scientific reasons of point and non point source of water pollutants which enable to give correct suggestions for it's proper treatment.

Unit I : Introduction

Definition of water pollution, sources of water pollutants, point and non point source pollution, types of water pollution: domestic and industrial; Surface water pollution and ground water pollution (07)

Unit II : Quality of sewage :

Purpose of sanitation; Principles of sanitation; Sanitary projects; Site for sewage treatment works; Sewerage systems : separate system, combined system, partially separate system (06)

Quality of sewage : Physical properties: Colour, Odour, Turbidity, Temperature, Solids; **Chemical properties:** Hydrogen ion concentration, Dissolved oxygen, Dissolved carbon di oxide, Chlorides, Hardness, Nitrogenous wastes, metals, Bio chemical oxygen demand, Chemical oxygen demand; **Biological characteristics:** Bacteria, Fungi, Rotifers, Protozoa, Crustaceans, Viruses, Population equivalent (12)

Unit III : Analysis of sewage & Natural Methods of sewage disposal:

Physical tests : Color, Odor, Temperature, Turbidity; Chemical tests : Chlorine, Oil & Grease, Nitrogen, Oxygen, Hydrogen ion concentration (pH), Total Solids; Bacteriological tests : MPN, IMVIC, Population equivalent. (10)

Disposal by dilution, Self purification of natural waters, Disposal by land treatment, Sewage as fertilizer; Methods of applying sewage: Basin method, Flooding method, furrow method, managed turf method, Zig Zag method. (10)

References

1. **Waste water treatment for pollution control :** *Soli J. Arceivala (Tata Mc-Grew Hill Publishing Company, New Delhi)*
2. **Water supply and sanitary engineering :** *R. C. rangwala and S. C. rangwala (Charotal publishing house, Anand)*
3. **Waste water treatment :** *M. N. Rao, A. K. Datta (Oxford and IBH publishing company, New Delhi)*
4. **A Text book of Sanitary Engineering :** *Vinayak Gharpure (Engineering Book Publishing Company, Pune)*
5. **Water Pollution :** *V. P. Kudesia (Pragati Prakashan, Meerut)*
6. **Environmental Chemistry :** *B. K. Sharma (Goel Publishing House, Meerut)*
7. **Waste water Engineering :** *Metcalf and Eddy (Tata Mc-Grew Hill Publishing Company, New Delhi)*
8. **Environmental Chemistry :** *A. K. De (Wiley eastern limited, New Delhi)*
9. **Environmental Pollution :** *H. M. Dix (New York)*
10. **Aquatic Plants for the Waste Water Treatment :** *Alkarani Upadhaya (Daya Publishing House, New Delhi)*
11. **Environmental Chemistry :** *B. K. sharma and H. Kour (Villa Publication, Meerut)*
12. **Introduction to Environmental Engineering :** *Mackenzie L. Davis & David A. Cornwell (Mc-Grew Hill Publishing Company, New Delhi)*
12. **Basic Water Treatment :** *George Smethurst (Scientific Publishers, Jodhpur)*
13. **Water Pollution and disposal of Waste water on Land :** *U. N. Mahida (Tata Mc-Grew Hill Publishing Company, New Delhi)*
14. **A Manual on Water and Waste Water Analysis :** *National Environmental Engineering Research Institute, Nagpur*

DECENV –I [(Section – B) Elective – I]
Environmental Instrumentation – I
P - XIII

Salient Features :

01. To study Instrumental methods used in Environmental Science studies.
02. To study applications of these instruments in environmental science studies.

Objectives: To understand principle, working and use of various scientific Instruments which are used in Environmental analysis.

Unit I : Introduction :

Classification of Instrumental methods, Types of errors : Determinate errors, Indeterminate errors, Precision and accuracy, Methods of expressing accuracy : Absolute errors, Relative errors. (05)

Unit II : Nephelometry, Turbidometry Measurement of pH, Redox potential and conductivity :

Nephelometry & Turbidometry : Introduction, Theory, Factors affecting measurement, Turbidometers, Nephelometers, Applications of Turbidometry and Nephelometry in Environmental studies (10)

pH and Redox potential measurement : Introduction, pH indicator method, potentiometry method, Types of electrodes, advantages and disadvantages, applications of pH meter. (08)

Conductivity measurement : Introduction, Definitions of various terms, Conductance measurement, Methods of conductance measurement, applications of conductivity measurement. (07)

Unit III : Chromatography :

Principles, Methods and applications of Thin Layer Chromatography (TLC): working and applications; Column chromatography: working and applications; Gas chromatography (GC): working and applications; High performance liquid chromatography (HPLC) : working and applications; Gas-liquid chromatography (GLC): working and applications; Ion exchange chromatography: working and applications. (15)

^ ^ ^ ^ ^ ^ ^ ^ ^ ^

References

1. **Instrumental Methods of Chemical Analysis :** Gurdeep Chatwal (Himalaya Publishing House, New Delhi), 2000
2. **Instrumental Methods of Analysis :** Willered Merit and Dean (CBS Publication, New Delhi)
3. **Instrumental Methods of Environmental Analysis :** Karan Sareen, (Sarup ans Sons Publishers, New Delhi), 2001
4. **Instrumental Methods of Chemical Analysis :** B. K. Sharma, Goel Publishing House, Meerut (1996).
5. **Standard Methods for the Examination of Water and Waste Water :** (APHA, AWWA & WPCF), 1985
6. **Instrumental Methods and chemical Analysis :** H. Kaur, Pragati Prakashan, Merrut (2009).
7. **Instrumental Analysis :** Shoog Holler (Harcourt Asia Publishers Ltd., New Delhi), 1952
8. **Instrumental Methods of chemical Analysis :** Chatwal and Anand (Himalaya Publishing House, New Delhi), 1994
9. **Instrumental Methods :** V. B. Borade (Nirali Prakashan, Mumbai)
10. **Instrumental Analysis for science and technology :** W. Ferren (Agrobios India, Jodhpur)

**DECENV [(Section – B) Elective – II]:
ENVIRONMENTAL EDUCATION AND BIODIVERSITY
P - XIV**

Salient Features :

01. To understand the goals and objectives of Environmental Education.
02. To understand the importance of Biodiversity and natural resources.

Objectives: Environmental education for better understanding and upliftment of biodiversity and natural resources..

Unit I : Environmental education

Environment, Ecology, Environmental Science, Environmental education, Goals and objectives of Environmental education, Principles of Environmental education, Role of green teacher in Environmental education. Environmental education in India : Formal Environmental education, Environmental education at higher secondary stage, Environmental education at college, Non formal Environmental education. (20)

Unit II: Biodiversity

Introduction, Definition, Genetic, species and Ecosystem diversity, Biogeographical classification of India, India as Mega diversity Nation, Value of biodiversity, Consumptive and Productive use, Social Ethical and Optional values. Biodiversity of Global, National and Local levels, Hotspots of biodiversity, Threats of biodiversity, Habitat loss. (10)

Unit III : Natural Resources :

Conventional Energy resources : Coal, Petroleum and natural gas, Nuclear energy, Geothermal energy, Management of Conventional Energy resources.

Non Conventional Energy resources : Solar energy, Hydro energy, Tidal energy, Biomass energy, Wind energy, management of non Conventional Energy resources.

Forest resources : Uses of forest resources, wood products, wood consumption, wood demand, Non wood products, trade of forest products, deforestation, A forestation, Social forestry, Forest management, National forest policy.

Wild life resources : Wild life and Environment, endangered species, causes of depletion of wild life, wild life trade, wild life management (15)

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References

1. **Environmental Education :** *Bombay Natural History Society*
2. **Principles of Ecology :** *P. S. Verma, V. K. Agarwal (S. Chand and Co. New Delhi)*
3. **Environmental Management :** *Sandeep Joshi (shrishti Eco – Research Institute, Pune)*
4. **Environmental Biology :** *P. D. sharma (Rastogi Publications, Meerut)*
5. **Ecology and Environment :** *P. D. sharma (Rastogi Publications, Meerut)*
6. **Principles of Environmental Biology :** *P. K. G. Nair (Himalaya Publishing House, New Delhi)*
7. **Environmental Biology :** *M. P. Arora (Himalaya Publishing House, New Delhi)*
8. **Environmental Science :** *Enger Smith, Smith, W. M. C. Brown (Company Publishing)*
9. **Pollution and Environmental laws :** *Satish Shastri*
10. **Introduction to Environmental Studies :** *Turk & Turk*
11. **Law Science and Environment :** *R. P. Anand*
12. **Conservation of Natural resources :** *David A. Castillan*
13. **Fundamentals of Environmental Science :** *G. S. Dahliwal, G. S. Sangha, P. K. ralthan, Kalyani Publishers, New Delhi*
Earth resources, Energy and the Environment : *Brookins*

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course

B. Sc. (Third Year) Semester- V

Effective From- June -2018

1. Skill Enhancement Course DECENV III

Soil conservation Practices

2 Credits

Paper - XV

Theory

(Lectures: 30)

Objective:

The main objective of the course is to imbibe the importance of soil and its conservation in students. Student will acquire the soil management skill. Student will know how to check the nutrient contents, deficiencies and its impact on food grain production. Conservation makes important contribution to social and economic development.

Syllabus to be covered:

Definition and introduction of soil. Origin and development of soil. Factors affecting soil formation. Soil erosion and its types. Principles and methods of soil conservation. Field visits to understand the mechanism of soil conservation practices.

For conservation of soil several methods have developed. These methods of soil conservation can be achieved by employing following methods.

Biological methods:

a) **Agronomic practices:** i) Contour farming ii) Mulching iii) Crop rotation iv) Strip cropping

b) **Agrostological methods:** i) Lay farming ii) grass farming.

Mechanical method: i) Contour terracing ii) Basin listing.

Other methods: a) Gully control b) Stream bank protection c) Afforestation.

References:

- 1. Fundamentals of Ecology:** Eugene P. Odum, (Natraj Publishers, Dehradun.)
- 2. Principles of Ecology:** P. S. Verma, V. K. Agarwal (S. Chand and Co. New Delhi)
- 3. Environmental Biology:** P. D. sharma (Rastogi Publications, Meerut)
- 4. Ecology and Environment:** P. D. sharma (Rastogi Publications, Meerut)
- 5. Principles of Environmental Biology:** P K G Nair (Himalaya Publishing House, New Delhi)
- 6. Environmental Biology:** M. P. Arora (Himalaya Publishing House, New Delhi)
- 7. Principles of Soil Science:** Watt K. E. F. (1973), (McGraw Hill Book Company, New Delhi)
- 8. Introduction to Environmental Studies:** Turk & Turk
- 9. Ecology and Field Biology:** Robert Leo Smith (Harper Collins college publication)
- 10. General Ecology:** H. D. Kumar (Vikas Publishing house, New Delhi)
- 11. Elements of Ecology:** Brijgopal, N. Bharadwaj (Vikas Publishing house, New Delhi)

DECENV II (Section A) :
Waste Water Engineering
P - XVI

Salient Features :

01. To understand the scientific process of treatment of waste water.
02. To know the load of waste water for appropriate primary / secondary / tertiary treatment.

Objectives: To give the proper treatment on the basis of load of waste water.

Unit I : Primary treatment of sewage :

Screens; Grit chambers; Detritus tank, Skimming tank; Sedimentation: Plain sedimentation tank, Primary

clarifiers, Secondary clarifiers, Coagulation of sewage. (12)

Unit II : Aerobic and Anaerobic treatment of sewage :

Aerobic Treatment : Activated sludge process: Action of activated sludge, aeration tank, Step aeration, Tapered aeration, extended aeration, Advantages of activated sludge process, Disadvantages of activated sludge process; Trickling filters: Standard rate trickling filters, High capacity trickling filters.; Oxidation ponds. (12)

Anaerobic treatment : Septic tank; Imhoff tank; Sludge digestion tank; Bio gas. (08)

Unit III : Tertiary treatment and Solid waste disposal :

Chlorination; Garbage collection and removal; Garbage disposal : Controlled tipping, disposal in to sea, filling of low lying areas, incineration, mechanical compost plant, pulverization, trenching; Night soil collection and disposal (13)

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References

1. **Waste water treatment for pollution control :** *Soli J. Arceivala (Tata Mc-Grew Hill Publishing Company, New Delhi)*
2. **Water supply and sanitary engineering :** *R. C. rangwala and S. C. rangwala (Charotal publishing house, Anand)*
3. **Waste water treatment :** *M. N. Rao, A. K. Datta (Oxford and IBH publishing company, New Delhi)*
4. **A Text book of Sanitary Engineering :** *Vinayak Gharpure (Engineering Book Publishing Company, Pune)*
5. **Water Pollution :** *V. P. Kudesia (Pragati Prakashan, Meerut)*
6. **Environmental Chemistry :** *B. K. Sharma (Goel Publishing House, Meerut)*
7. **Waste water Engineering :** *Metcalf and Eddy (Tata Mc-Grew Hill Publishing Company, New Delhi)*
8. **Environmental Chemistry :** *A. K. De (Wiley eastern limited, New Delhi)*
9. **Environmental Pollution :** *H. M. Dix (New York)*
10. **Aquatic Plants for the Waste Water Treatment :** *Alkarani Upadhaya (Daya Publishing House, New Delhi)*
11. **Environmental Chemistry :** *B. K. sharma and H. Kour (Villa Publication, Meerut)*
12. **Introduction to Environmental Engineering :** *Mackenzie L. Davis & David A. Cornwell (Mc-Grew Hill Publishing Company, New Delhi)*
13. **Basic Water Treatment :** *George Smethurst (Scientific Publishers, Jodhpur)*
14. **Water Pollution and disposal of Waste water on Land :** *U. N. Mahida (Tata Mc-Grew Hill Publishing Company, New Delhi)*
15. **A Manual on Water and Waste Water Analysis :** *National Environmental Engineering Research Institute, Nagpur*

**DECENV II [(Section B) Elective I]:
Environmental Instrumentation – II
P - XVII**

Salient Features :

01. To study Instrumental methods used in Environmental Science studies.
02. To study applications of these instruments in environmental science studies.

Objectives: To understand principle, working and use of various scientific Instruments which are used in Environmental analysis.

Unit I : Colorimetry and Fluoride meter :

Colorimetry : Theory, Lambert's law, Beer's Law, Working of Colorimetry, Applications.

Fluoride meter : Principle of operation, Salient features, Working Applications. (10)

Unit II : Spectrophotometry :

Principle and Operation of Spectrophotometer, Ultra Violet (UV) Spectrophotometer: working and applications;

Infra Red (IR) Spectrophotometer: working and applications, Nuclear Magnetic Resonance (NMR): working

and applications; Atomic Absorption Spectrophotometer (AAS): working, applications and its importance;

Flame Photometer: working and applications; Fluoride meter : utility and significance. (20)

Unit III : Flame Photometry :

Introduction, Principle, Instrumentation, Applications of flame photometry in environmental Analysis (15)

References

1. **Instrumental Methods of Chemical Analysis :** Gurdeep Chatwal (Himalaya Publishing House, New Delhi), 2000
2. **Instrumental Methods of Analysis :** Willered Merit and Dean (CBS Publication, New Delhi)
3. **Instrumental Methods of Environmental Analysis :** Karan Sareen, (Sarup ans Sons Publishers, New Delhi), 2001
4. **Instrumental Methods of Chemical Analysis :** B. K. Sharma, Goel Publishing House, Meerut (1996).
5. **Standard Methods for the Examination of Water and Waste Water :** (APHA, AWWA & WPCF), 1985
6. **Instrumental Methods and chemical Analysis :** H. Kaur, Pragati Prakashan, Merrut (2009).
7. **Instrumental Analysis :** Shoog Holler (Harcourt Asia Publishers Ltd., New Delhi), 1952
8. **Instrumental Methods of chemical Analysis :** Chatwal and Anand (Himalaya Publishing House, New Delhi), 1994
9. **Instrumental Methods :** V. B. Borade (Nirali Prakashan, Mumbai)
10. **Instrumental Analysis for science and technology :** W. Ferren (Agrobios India, Jodhpur)

**DECENV II [(Section B) Elective II]:
Environmental Management
P – XVIII**

Salient Features :

01. To study the principles of environmental management and various historical movements in environmental protection.
02. To study various laws and legislations of environmental protection.

Objectives: To understand various movements of environmental protection and the methods of environmental protection management through software tools and environmental laws.

Unit I : Environmental awareness & Management

Principles of Environmental Management : Introduction, Evolution of Environmental Management, Basic Principles of Environmental Management, Endangered and Endemic species: In India and in World countries, Conservation of biodiversity, In-situ and Ex-situ conservation. Major Environmental movements: Chipko movement, Silent Valley movement, Appiko movement, Narmada Bachao Andolan, Tehri Dam conflicts and ideological trends in Indian environmentalists. International Agreements and Environmental Awareness: Earth Summit, Convention of Biodiversity, United Nations Convention on Climate Change, Seminar, Conferences, Poster Exhibition, Public Participation, Training to the students (24)

Unit II : Environmental Impact Assessment and Remote sensing :

EIA : EIA process, preparation of EIA statement, Cost benefit analysis, current status of EIA, Projects covered by EIA, Environmental audit. EMS ISO 14000, Kyoto protocol.

Remote sensing : Maps, types of maps, satellite images, GPS, types of remote sensing, Remote sensing tools in environmental management, applications of remote sensing in oceanography, meteorology, wet land mapping, forest management, exploration of under ground water. (15)

Unit III : Environmental legislation : (Introduction, Rules & Regulations, Penalties)

Salient features of the Motor vehicle act 1988, Water prevention and control of pollution act 1974, Water prevention and control of pollution act 1977, Environmental protection act 1986, Wild life protection act 1972.

Biodiversity Act-2002 (06)

References

1. **Environmental Education :** *Bombay Natural History Society*
2. **Principles of Ecology :** *P. S. Verma, V. K. Agarwal (S. Chand and Co. New Delhi)*
3. **Environmental Management :** *Sandeep Joshi (shrishti Eco – Research Institute, Pune)*
4. **Environmental Biology :** *P. D. sharma (Rastogi Publications, Meerut)*
5. **Ecology and Environment :** *P. D. sharma (Rastogi Publications, Meerut)*
6. **Principles of Environmental Biology :** *P. K. G. Nair (Himalaya Publishing House, New Delhi)*
7. **Environmental Biology :** *M. P. Arora (Himalaya Publishing House, New Delhi)*
8. **Environmental Science :** *Enger Smith, Smith, W. M. C. Brown (Company Publishing)*
9. **Pollution and Environmental laws :** *Satish Shastri*
10. **Introduction to Environmental Studies :** *Turk & Turk*
11. **Law Science and Environment :** *R. P. Anand*
12. **Conservation of Natural resources :** *David A. Castilian*
13. **Fundamentals of Environmental Science :** *G. S. Dahliwal, G. S. Sangha, P. K. ralthan, Kalyani Publishers, New Delhi*
14. **Earth resources, Energy and the Environment :** *Brookins*

**DECENVP I : Laboratory Course
(Practical's based on P- XII & XIV)
P- XIX**

1. Study of sewage sampling Equipments.
2. Methods of sample collection.
3. Preservation of sewage samples.
4. Determination of Color of sewage sample.
5. Determination of pH of provided sewage sample.
6. Determination of Turbidity of provided sewage sample by turbidity meter method.
7. Determination of Total solids from the sewage sample.
8. Determination of Total dissolved solids from the sewage sample.
9. Determination of Volatile solids from sewage sample.
10. Determination of Conductivity of sewage sample.
11. Determination of Chlorides from provided sewage sample.
12. Determination of dissolved oxygen from sewage sample.
13. Determination of Carbon di oxide from sewage sample.
14. Determination of Oil & Grease from Sewage sample.
15. Determination of silica.
16. Determination of Ammonia from sewage sample.
17. Determination of Nitrates from sewage sample.
18. Estimation of hydrogen Sulphide from the wastewater.
19. Estimation of Biochemical oxygen demand of wastewater.
20. Estimation of Chemical oxygen demand waste water.

DECENVP- II (Elective I) : Laboratory Course
(Practical's based on P-XIII & XVII)
P-XX

Principle, Working, Standardization and applications of Instruments

1. pH meter
2. Turbidity meter
3. Conductivity meter
4. Thin layer chromatography
5. Column chromatography
6. BOD Incubator
7. Water testing Kit (Temperature measurement)
8. Water testing Kit (ORP measurement)
9. Water testing Kit (Salinity measurement)
10. Fluoride meter
11. Colorimeter (Estimation of Copper)
12. Colorimeter (Estimation of Zinc)
13. Colorimeter (Estimation of Manganese)
14. Colorimeter (Estimation of Ferrous)
15. Spectrophotometer (Estimation of Phosphate)
16. Spectrophotometer (Estimation of Sulphate)
17. Flame photometer (Estimation of Sodium)
18. Flame photometer (Estimation of Calcium)
19. Flame photometer (Estimation of Lithium)
20. Submission of Excursion Report

**DECENVP III (Elective II) : Laboratory Course
(Practical's based on P-XIV & XVIII)
P- XXI**

1. Determination of wind speed by anemometer.
2. Ecological adaptations (Xerophytes) (any two)
3. Ecological adaptations (Mesophytes) (any two)
4. Ecological adaptations (Hydrophytes) (any two)
5. Determination of Detergents.
6. Estimation of primary production by light and dark bottle Technique.
7. Study of Satellite image.
8. Study of GPS.
9. Estimation of chlorophyll content by Paper Chromatography.
10. Determination of organic matter from soil by Walkley's black method.
11. Estimation of Biomass.
12. Study of Ecological Maps
13. Estimation of hydrogen Sulphide from the wastewater.
14. Preparation of Air quality Impact Assessment Check list.
15. Preparation of Water quality Impact assessment Check list.
16. Preparation of Noise Impact assessment Check list.
17. Study of Grassland ecosystem in excursion tour.
18. Study of Forest ecosystem in Excursion tour.
19. Study of Aquatic ecosystem in excursion tour.
20. Study of Desert ecosystem in excursion tour.

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References

01. Practical Methods in Ecology and Environmental Science.

R. K. Trivedy, P. K. Goel, Trisal (Environmental Publication, Karad)

02. Manual of Environmental Pollution Analysis

N. N. Bandela, Masarat Sultana, Uday P. Patil (Prathivi Publication, Aurangabad)

03. A Manual of Fresh water ecology *R. Santhanam, P. Velayutham, G. Jegatheesan (Daya Publishing House, Delhi)*

04. Physico-Chemical Examination of Water, Sewage & Industrial effluents

N. Manivasakam (Pragati Prakashan, Meerut)

05. Manual on Water and Waste Water Analysis *National Environmental Engineering Research Institute, Nagpur*

06. Methodology for Water Analysis *Dr. Mohan S. Kodarkar, (Indian Association of aquatic Biologist's, Hyderabad)*

07. Chemical and Biological methods for Water Pollution Studies *R. K. Trivedy, P.*

K. Goel (Environmental Publication, Karad)

08. Methods in Environmental Analysis : Water, Soil, Air

P. K. gupta, (Agrobios India, Jodhpur)

09. Chemical methods for Environmental analysis: Water & Sediments

R. Ramesh & M. Anbu (Macmillan India Limited)

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course

B. Sc. (Third Year) Semester- VI

Effective From- June -2018

1. Skill Enhancement Course DECENVP- IV

Training course on waste water Analysis

2 Credits

Paper - XXII

Theory

(Lectures: 30)

Objective:

The main objective of the course is to make students aware and expert in handling waste water its analysis and use of various techniques and instruments. This course is designed to train students to safely and effectively operate advanced wastewater treatment plants in future.

Syllabus to be covered:

Definition and introduction of waste water or waste water pollution. Sources and types of water pollution. Physico-chemical characteristics of waste water. Collection and preservation of waste water sample for analysis. Tabulation and expression of results. Comparison with standard laid down by Indian standards Institutes.

Course content: Collection of sample and preservation with proper tools and techniques for its analysis. Analysis of waste water for its physical characteristic like colour, odour, turbidity, temperature. Analysis of chemical characteristics like pH, Acidity, Alkalinity, Chloride, Dissolved oxygen, Biological oxygen demand, chemical oxygen demand, Total solids, Total dissolved solids and Bacteriological examinations MPN, Faecal and non faecal coliforms etc.

References

- 01. Waste water treatment for pollution control:** *Soli J. Arceivala (Tata Mc-Grew Hill Publishing Company, New Delhi)*
- 02. Water supply and sanitary engineering:** *R. C. rangwala and S. C. rangwala (Charotal publishing house, Anand)*
- 03. Waste water treatment:** *M. N. Rao, A. K. Datta (Oxford and IBH publishing company, New Delhi)*
- 04. A Text book of Sanitary Engineering:** *Vinayak Gharpure (Engineering Book Publishing Company, Pune)*
- 05. Water Pollution:** *V. P. Kudesia (Pragati Prakashan, Meerut)*
- 06. Environmental Chemistry:** *B. K. Sharma (Goel Publishing House, Meerut)*
- 07. Waste water Engineering :** *Metcalf and Eddy (Tata Mc-Grew Hill Publishing Company, New Delhi)*
- 08. Environmental Pollution :** *H. M. Dix (New York)*
- 09. Aquatic Plants for the Waste Water Treatment :** *Alkarani Upadhaya (Daya Publishing House, New Delhi)*
- 10. A Manual on Water and Waste Water Analysis :** *National Environmental Engineering Research Institute, Nagpur.*
- 11. Hand Book of Methods in Env. Studies:** *S. K. MAITI, ABD Publishers, Jaipur, India.*
- 12. Instrumental Methods of Chemical Analysis:** *G. R. Chatwal and Anand Himalaya Publishing house, New Delhi*
- 13. Environmental Science Principle & Pract.:** *R. C. Das & Behera Prentice Hall of India Pvt. Ltd. New Delhi*

**Swami Ramanand Teerth Marathwada
University, Nanded.**

B. Sc. Third Year (Mathematics)

Syllabus

CBCS Pattern

Effective from June-2018

Scheme of B. Sc. Mathematics Programme (Science Faculty) Under CBCS pattern

Semester	Courses Opted	Course Name	Credits
I	Core Course Section A	Paper-I: Differential Calculus	02
	Core Course Section B	Paper-II: Algebra and Trigonometry	02
	Core Course Practical	Practical Based on Mathematical Software	02
Total Semester-I			06
II	Core Course Section A	Paper-III: Integral Calculus	02
	Core Course Section B	Paper-IV: Geometry	02
	Core Course Practical	Paper-V: Practical Based on Mathematical Software	02
Total Semester-II			06
Total Semester-I & II			12
III	Core Course Section A	Paper-VI: Real Analysis-I	02
	Core Course Section B	Paper-VII: Group Theory	02
	Core Course Section C	Paper-VIII: Ordinary Differential Equations	02
	Skill Enhancement Course	SEC-I: Choose any one	02
Total Semester-III			08
IV	Core Course Section A	Paper-IX: Real Analysis-II	02
	Core Course Section B	Paper-X: Ring Theory	02
	Core Course Section C	Paper-XI: Partial Differential Equations	02
	Skill Enhancement Course	SEC-II: Choose any one	02
Total Semester-IV			08
Total Semester-III & IV			16
V	Discipline Specific Elective Course Section A	Paper-XII: Metric Spaces	02
	Discipline Specific Elective Course Section B	Paper-XIII: Linear Algebra	02
	Discipline Specific Elective Course Section C	Paper-XIV: Choose any one A) Operation Research B) Mechanics-I C) Complex Analysis	02
	Skill Enhancement Course	SEC-III: Choose any one	02
Total Semester-V			08
VI	Discipline Specific Elective Course Section A	Paper-XV: Numerical Analysis	02
	Discipline Specific Elective Course Section B	Paper-XVI: Integral Transforms	02
	Discipline Specific Elective Course Section C	Paper-XVII: Choose any one A) Topology B) Mechanics-II C) Elementary Number theory	02
	Skill Enhancement Course	SEC-IV: Choose any one	02
Total Semester-VI			08
Total Semester-V & VI			16
Total Course Credits			44

**Detailed Structure of B. Sc. Mathematics (Faculty of Science) Syllabus under CBCS
Pattern**

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY
NANDED**

CBCS PATTERN FOR B.Sc. MATHEMATICS

B. Sc I Year

Effective From 2016-17

Semester	Section and Paper Code	Period per week	Paper No. and Title of the papers	Marks of Semester	Internal C.A.	Total Marks	Credits
I	CCM-1 Section A	4	Paper- I Differential Calculus	40	10	50	2
	CCM-1 Section B	4	Paper-II Algebra & Trigonometry	40	10	50	2
II	CCM-2 Section A	4	Paper –III Integral Calculus	40	10	50	2
	CCM-2 Section B	4	Paper- IV Geometry	40	10	50	2
	CCMP-I	2	Paper -V Practical on MATLAB	80	20 (R.B.=10 I.E.=10)	100	4
Total Credits							12

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY
NANDED**

CBCS PATTERN FOR B.Sc. MATHEMATICS

B. Sc II Year

Effective From 2017-18

Semester	Section And Paper Code	Period per week	Paper No. and Title of the papers	External Marks	Internal C.A.	Total Marks	Credits
III	CCM-3 Section A	5	Paper –VI Real Analysis -I	40	10	50	2
	CCM-3 Section B	5	Paper – VII Group Theory	40	10	50	2
	CCM-3 Section C	5	Paper –VIII Ordinary Differential Equations	40	10	50	2
	SECM-I	3 Theory-1, Practical-2	one Skill can be chosen	25	25	50	2
IV	CCM-4 Section A	5	Paper-IX Real Analysis–II	40	10	50	2
	CCM-4 Section B	5	Paper –X Ring Theory	40	10	50	2
	CCM-4 Section C	5	Paper XI Partial Differential Equation	40	10	50	2
	SECM-II	3 Theory-1, Practical-2	one Skill can be chosen	25	25	50	2
Total Credits							16

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED**CBCS PATTERN FOR B.Sc. MATHEMATICS****B. Sc III Year****Effective From 2018-19**

Semester	Section Paper-Code	Period /Week	Title Of The Paper	External Exam	Internal Exam	Total Marks	Credits
V	DSEM-5 Section-A	5	Paper-XII Metric Space	40	10	50	2
	DSEM-5 Section-B	5	Paper-XIII Linear Algebra	40	10	50	2
	DSEM-5 Section-C	5	Choose Any One Of The Following Paper-XIV (A) Operations Research (B) Mechanics-I (C) Complex Analysis	40	10	50	2
	SECM-III	3	Choose Any One Of the Skill	25	25	50	2
VI	DSEM-6 Section-A	5	Paper-XV Numerical Analysis	40	10	50	2
	DSEM-6 Section-B	5	Paper-XVI Integral Transformation	40	10	50	2
	DSEM-6 Section-C	5	Choose Any One Of The Following Paper-XVII (A) Topology (B) Mechanics-II (C) Elementary Number Theory	40	10	50	2
	SECM-IV	3	Choose Any One Of the Skill	25	25	50	2
Total Credit							16

Swami Ramanand Teerth Marathwada University, Nanded.
B. Sc. Third Year Syllabus (Mathematics)
CBCS Effective from June 2018

Outlining the salient features:

1) Utility of Syllabus:

- i) Students can verify the convergence of sequences, completeness compactness and connectedness of given metric spaces.
- ii) Students will be able to find dimensions of various vector spaces and by using determinant concept students can solve the linear equations in two, three unknowns.
- iii) Students can obtain the solutions of LPP using various methods.
- iv) Students can obtain equilibrium of forces and resultant force of forces.
- v) Students will be able to check the Analyticity of functions
- vi) Students can obtain Numerical solutions of differential equations by using numerical techniques.
- vii) Students can solve differential equations using Laplace transformations.

2) Learning Objectives of Syllabus:

- i) To maintain updated curriculum.
- ii) To take care of fast paced development in the knowledge of mathematics.
- iii) To meet the needs and requirements of the society and to enhance the quality and standards of Mathematics Education.
- iv) To provide multidisciplinary profile and to allow a flexible cafeteria like approach including initiating new papers to cater to frontier developments in the subject like Mathematics.
- v) To create confidence in others, for equipping themselves with that part of Mathematics which is needed for various branches of Sciences or Humanities in which they have aptitude for higher studies and original work.
- vi) Strengthening the understanding of the students and substantiating the conceptual framework of Mathematics for furthering their potential and capabilities in the subject.

- vii) Introducing advanced theories in the subject in an orderly manner with a clearly defined path of interdependence.
- viii) Introducing the specializations in different areas of Mathematics and at the same time emphasizing the underlying interconnections in different branches of Mathematics.
- ix) Generating more interest in the subject and motivating students for self learning beyond the realm of syllabi and examinations.
- x) Inculcating the spirit of inquiry among the students and preparing them to take up the research in Mathematics.
- xi) Exhibiting the wide range of applications of Mathematics and preparing students to apply their knowledge in diverse

3. Prerequisite:

Basic Set theory, Convergence of sequence and series, Basic Group theory and Ring theory, Fields, Linear equations, Vectors and Scalars, Number System, Differentiation and Integration.

B.Sc. T.Y. Semester-V
DSEM-5, Section-A
Paper XII: Metric Spaces

No. of periods: 60

Max. Marks: 50

Credits: 2

Unit I: Definitions and examples:
Definition of Metric Space, Examples of Metric Space, Diameter of a nonempty Set.

Open and Closed sets:

Open and Closed Spheres, Neighbourhood of a Point, Open Sets, Limit Points, Closed Sets, Subspaces, Closure of a Set.

Unit II: Convergence and Completeness:
Definition, Cauchy Sequence, Cantor's Intersection Theorem, Baire's Category Theorem.

Continuity and Uniform Continuity:

Definitions, Examples, Theorems on Continuity and Uniform Continuity, Banach Fixed Point Theorem.

Unit III: Compactness:
Definitions and Theorems on Compactness, Heine-Borel Theorem, Compactness and Finite Intersection Property, Relative Compactness, ϵ -Nets and Totally Bounded Sets, Lebesgue Number for Covers.

Connectedness:

Separated Sets, Definition and Theorems on Connectedness.

Text Book: S.C. Malik and Savita Arora, "Mathematical Analysis", New Edge International (P) Limited Publisher, New Delhi (Fourth Edition).

Scope:

Unit I : Chapter 19:- Art. 1, 2, 2.1, 2.2, 2.3 (Theorem 1 only), 2.4, 2.5, 2.6, 2.7.

Unit II : Chapter 19:- Art. 3, 4 (Theorem 16 statement only), 4.1.

Unit III: Chapter 19:- Art. 5 (Theorem 21 statement only), 5.1, 5.2 (Theorems 26 to 33 Statements only), Art. 6. (up to Theorem 39 and Example 45).

Reference Books:

1. Somasundaram & Chaudhary "A First Course in Mathematical Analysis", Narosa Pub. House New Delhi.
2. R. Goldberg, "Methods of Real Analysis", Oxford & IBH Pub. Co. PVT Ltd Shantinaraayan & M.D. Raisinghania, "Elements of Real Analysis", S. Chand. Co. Ltd.
3. E. T. Copson "Metric Spaces", Cambridge University Press. Universal Book Co. New Delhi.
4. T. M. Apostol "Mathematical Analysis", Narosa Pub. House New Delhi.
5. T. M. Karade, "Lecturers on Analysis", Sonu Nilu Pub. Nagpur.

B.Sc. T.Y. Semester-V
DSEM-5, Section-B
Paper XIII: Linear Algebra.

No. of periods: 60

Max. Marks: 50

Credits: 2

Unit I: Vector spaces:
Elementary Basic Concepts of Vector Spaces, Linear Independence and Bases, Dual Spaces.

Unit II: Inner Product Spaces, Fields: Extension Fields (Definitions only).

Unit III: Linear Transformation:
The Algebra of Linear Transformations, Characteristic Roots, Matrices.

Text Book: I.N. Herstein, "Topics in Algebra", (2nd Edition), John Wiley and Sons.

Scope:

Unit I : Chap. 4: Art. 4.1, 4.2, 4.3

Unit II : Chap. 4: Art. 4.4. Chap. 5: Art. 5.1(Definitions only)

Unit III: Chap. 6: Art. 6.1, 6.2, 6.3.

References:

1. P.B. Bhattacharya, S.K. Jain and S.R. Nagpaul, "First Course in Linear Algebra", New Age International-1983.
2. V. Krishnamurty , P Mainara, J.L. Arrora, "An Introduction to linear Algebra", Affiliated East west Press Pvt. Ltd.
3. Smith, "Linear Algebra", Springer-Verlag, New York.
4. K B Datta, "Matrix and Linear Algebra", Prentice Hall of India Pvt. Ltd New Delhi, 2000.
5. Stephen H. Friedberg, "Elementary Matrix Algebra", Second Edition, Prentice Hall
6. V. K. Khanna, S. K. Bhambri, "A Course in Abstract Algebra", S. Chand Publications.

B.Sc. T.Y. Semester-V
DSEM-5, Section-C
Paper XIV (A): Operation Research

No. of periods: 60

Max. Marks: 50

Credits: 2

- Unit I: Linear Programming problem:**
Mathematical Formulation: Introduction, Linear Programming Problem, Mathematical Formulation of the Problem, Illustration on Mathematical Formulation of LPPs.
Graphical Solution and Extension: Introduction, Graphical Solution Method, Some Exceptional Cases, General Linear Programming Problem, Canonical and Standard Forms of L.P.P.
- Unit II: Linear Programming Problem:**
Simplex Method: Introduction, Fundamental Properties of Solution, Computational Procedure, Use of Artificial Variables, Degeneracy in Linear Programming, Solution of Simultaneous Linear Equations, Inverting a Matrix using Simplex Method, Applications of Simplex Method.
- Unit III: Transportation Problem:** Introduction, LP Formulation of Transportation Problem, Existence of Solution in Transportation Problem.
Assignment Problem: Introduction, Mathematical Formulation of the Problem, Solution Methods of Assignment Method, Special cases in Assignment Problem, A typical Assignment Problem.

Text Book: Kanti Swarup, P.K. Gupta and Man Mohan, "Operations Research", Fourteenth Thoroughly Revised Edition, Sultan Chand & Sons. Educational Publishers, New Delhi.

Scope:

Unit I : Chapter-2: Articles 2.1 to 2.4 (complete), Chapter- 3: Art. 3.1 to 3.5.

Unit II : Chapter-4: Articles 4.1 to 4.8.(Complete).

Unit III: Chapter-10: Articles 10.1, 10.2, 10.3, Chapter-11: Articles 11.1 to 11.5.

References:

1. Hiller and Lieberman "Introduction to Operation Research", Tata Mc Graw Hill.
2. Hamdy A. Taha "Operation Research an Introduction", Eight Edition Pearson Prentice Hall, Pearson Education Inc.
3. Er. Prem Kumar Gupta, Dr. D. S. Hira "Problems in Operations Research Principles and solutions", S. Chand & Company, Ram Nagar, New Delhi.
4. R. K. Gupta, "Operation Research", Krishana Prakashan Media Ltd.
5. J. K. Sharma, "Operation Research: Theory and Applications", Second Edn. 2006, Macmillan India Ltd.

B.Sc. T.Y. Semester-V
DSEM-5, Section-C
Paper XIV (B): Mechanics-I (Statics)

No. of periods: 60

Max. Marks: 50

Credits: 2

Unit I: Forces Acting on a Particle:

Definitions, Law of Parallelogram of Forces, Magnitude and Direction of the Resultant, Deductions, Resultant of Forces, Components and Resolved parts, Algebraic Sum of the Resolved Parts, Magnitude and Direction of the Resultant of any number of Forces, Resultant of Parallel Forces.

Unit II: Equilibrium of Forces Acting on a Particle:

Triangle law of Forces, Converse of the Triangle Law of Forces, Polygon of Forces, Lami's Theorem, Conditions of Equilibrium of Forces acting on a Particle.

Unit III: Forces Acting on a Rigid Body:

Introduction, Moment of a Force, Sum of the Vector Moment of a System of Forces, Sum of the Vector Moments of to like Parallel Forces, Couples, Two Couples acting in one Plane upon a Rigid Body, Equivalent Couples, Vector Moment of the Resultant Couple of two Couples acting upon o Rigid Body, System of Forces acting upon a Rigid Body, Conditions of Equilibrium of Forces, Conditions of Equilibrium of Coplanar Forces.

Text Book: V. Tulsani, T. W. Warhekar, N.N. Saste , "Mechanics and Differential Geometry", S. Chand and Co. (pvt.) Ltd. New Delhi, Second Edition.

Scope:

Unit I: Chapter 1: Art. 1.1 to 1.17.

Unit II: Chapter 2: Art. 2.1 to 2.5.

Unit III: Chapter 3: Art. 3.1 to 3.12.

References:

1. B.R. Thakur and G.P. Shrivastav, "Mechanics", Ram Prasad and Sons, Agra-3, New Edition, New Delhi.
2. Shanti Narayan, "Mechanics" S. Chand and Co.
3. S. L. Loney, "An elementary Treatise on Dynamics Particle and Rigid Bodies", A.I.T.B.S. Publishers and Distributers 2003, New Delhi.
4. S. L. Loney, "An elementary Treatise on Statics", A.I.T.B.S. Publishers and Distributers 2004, New Delhi.

B.Sc. T.Y. Semester-V
DSEM-5, Section-C
Paper XIV (C): Complex Analysis

No. of periods: 60

Max. Marks: 50

Credits: 2

Unit I: **Complex Numbers:** Sum and Products, Basic Algebraic Properties, Further Properties, Vectors and Moduli, Complex Conjugates, Exponential Form, Products and Powers in Exponential Form, Arguments of Products and Quotients, Roots of Complex Numbers, Examples, Regions in the Complex Plane.

Unit II: **Analytic Functions:** Function of Complex Variables, Limits, Theorems on Limits, Limits Involving the Point at Infinity, Continuity, Derivatives, Differentiation Formulae, Cauchy-Riemann Equations, Sufficient Conditions for Differentiability, Polar Coordinates, Analytic Functions, Harmonic Functions.

Unit III: **Elementary Functions:** The Exponential Functions, The Logarithmic Function, Branches and Derivatives of Logarithms, Some Identities Involving Logarithms, Complex Exponents, Trigonometric Functions, Hyperbolic Functions.

Text Book: J. W. Brown and R. V. Churchill, “Complex Variables and Applications”, International Students Edition 2009, 7th Edition.

Scope:

Unit I: Chapter 1: Art. 1 to 10.

Unit II: Chapter 2: Art. 11, 14 to 25.

Unit III: Chapter 3: Art. 28 to 34.

References:

1. S. Punnusamy, “Complex Analysis”, Narosa Publishing House, 2nd Edition.
2. S. Lang, “Complex Analysis”, Springer Verlag.
3. A. R. Shastri, “An Introduction to Complex Analysis”, MacMillan.

**B.Sc. T.Y. Semester-V
SECM-III**

No. of periods: 45

Max. Marks: 50

Credits: 2

Choose any one of following skill.

SEC-III (A) Financial Mathematics

The measurement of interest: Introduction, The accumulation and amount functions, The effective rate of interest, Simple interest, Compound interest, Present value, The effective rate of discount, Nominal rates of interest and discount, Forces of interest and discount, Varying interest, Summary of results.

References:

1. Kellison Stephen G., The Theory of Interest, 3rd Edition. McGraw-Hill International Edition (2009).
2. UK Institute of Actuaries core leading for the subject CT1-Financial Mathematics.
3. Elliott R.J. and Kopp P.E. Mathematics of Financial Markets. Springer.1999

SEC-III (B) Working with Partial Differential Equations using Mathematical Software like Matlab, Mapple, Scilab and other software

References:

1. Getting Started With MATLAB 7 - Rudra Pratap, Oxford University Press, (Indian Eden) www.oup.com
2. Satish Annigeri, "An Introduction to Scilab" December 2009.
3. Sandeep Nagar, "Introduction to Scilab For Engineers and Scientists", APRESS.
4. Introduction to Scilab – Michaël Baudin, Consortium Scilab, 2010
5. The Scilab Consortium. Scilab. <http://www.scilab.org>.
6. Sylvestre Ledru. Different execution modes of Scilab. http://wiki.scilab.org/Different_execution_modes_of_Scilab.
7. Atlas - automatically tuned linear algebra software. <http://math-atlas.sourceforge.net>.
8. Cecill and free software. <http://www.cecill.info>.
9. Intel. Intel math kernel library. <http://software.intel.com/en-us/intel-mkl/>.
10. Flexdock project. Flexdock project home. <https://flexdock.dev.java.net/>.

B.Sc. T.Y. Semester-VI
DSEM-6, Section A
Paper XV: Numerical Analysis

No. of periods: 60

Max. Marks: 50

Credits: 2

Unit I: Differences, Operators, Interpolation with Equal Intervals:
Introduction, Differences, Factorial Notation, The Operator E, Properties of E and Δ , The Operators D and ∇ , Interpolation, Extrapolation, Interpolation with Equal Intervals, Newton- Gregory Formula for Forward and Backward Interpolation, Equidistant Terms with one or more Missing Terms. Interpolation for Unequal Intervals of the arguments, Divided Differences with Unequal Intervals, Divided Differences, when Two or More Arguments are Same, Properties of Divided Differences (Theorems 1, 2 only)

Unit II: Properties of Divided Differences (Theorems 3, 4 only), Newton's, Formula for Unequal Intervals, Lagrange's Formula for Unequal Intervals, Central Differences ($\nabla, \delta, \sigma, \mu$), Interpolation Formulae: Gauss, Bessel and Stirling's.

Unit III: Numerical Differentiation: Introduction, Approximate Expressions for the Derivative of a Function, Unsymmetrical Expressions for Third Order Derivatives.
Numerical Quadrature: Introduction, General Quadrature Formula, Trapezoidal, Simpson's One-third and Three-eight Rules. Weddle's Rule.
Numerical Solution of O.D.E.: Introduction, Equation of First order, Euler's Method, Euler's Modified Method, Picard's method, Talyor's Series Method.

Text Book: H.C. Saxena, "Finite Differences and Numerical Analysis", S. Chand & Co. reprint 2001.

Scope:

Chap. 1: Art. 1.1 to 1.3, 1.5.1,1.5.2,1.5.3, 1.6, 1.6.1, 1.6.2, 1.7 1.7.1, 1.8, 1.8.1 to 1.8.3.

Chap. 2: A rt. 2.1, 2.2, 2.3, 2.4.1.

Chap. 3: 3.1, 3.2, 3.3, 3.4, 3.5.

Chap. 5: Art. 5.1, 5. 2. 5.3.

Chap. 6: Art. 6.1, 6.2, 6.3.1, 6.3.2, 6.3.3, 6.3.4

Chap. 15: Art. 15.1, 15.2.1, 15.2.2, 15.2.3, 15.2.4(a).

References:

1. S.S. Sastry, "Introductory Methods of Numerical Analysis" Prentice-Hall of India Private Ltd. (Second Edition) 1997.
2. E.V. Krishnamurthi & Sen, "Numerical Algorithm", Affiliate East, West press Private Limited 1986.
3. M.K. Jain, SRK Iyengar, R.K. Jain, "Numerical Methods for Scientific and Engineering Computations", New Age International Limited Pub.

B.Sc. T.Y. Semester-VI
DSEM-6, Section-B
Paper XVI: Integral Transforms

No. of periods: 60

Max. Marks: 50

Credits: 2

Unit I: Laplace Transforms:

Introduction, Laplace Transform, Important Formulae, Properties of Laplace Transforms, Laplace Transforms of the Derivative of $f(t)$, Laplace Transforms of Derivative of Order n , Laplace Transform of Integral of $f(t)$, Laplace Transform of $t \bullet f(t)$ (Multiplication by t), Laplace Transform of $\frac{1}{t} \cdot f(t)$ (Division by t), Unit Step Function. Second Shifting Theorem, Convolution Theorem, Evaluation of Integrals, Formulae of Laplace Transform, Properties of Laplace Transforms.

Unit II: Inverse Laplace Transforms:

Inverse Laplace Transforms, Important Formulae, Multiplication by S , Division by S , First Shifting Property, Second Shifting Property, Inverse Laplace Transform of Derivatives, Inverse Laplace Transform of Integrals Partial Fraction Methods, Inverse Laplace Transform by Convolution, Solution of Differential Equation by Laplace Transforms, Solution of Simultaneous Differential Equations by Laplace Transforms.

Unit III: Fourier Transforms:

Introduction, Integral Transforms, Fourier Integral, Theorems, Fourier Sine and Cosine Integrals, Fourier Complex Integral, Fourier transforms, Fourier Sine and Cosine Transforms, Properties of Fourier Transforms.

Text Book: H.K. Dass, "Advanced Engineering Mathematics", S. Chand and Co.

Scope:
Unit I : Art. 13.1 to 13.19
Unit II : Art. 13.20 to 13.31
Unit III: Art. 14.1 to 14.8

References:

1. Grove A . C., "An Introduction to Laplace Transforms and Z- Transforms", Prentice Hall 1991.
2. Doetsch G., "Introduction to Theory and Application of Laplace Transforms", Springer Verlag, 1990.
3. Murray Spigel, "Schaum Outline of Laplace Transforms", Schaum Outline Series Mc-Graw Hill 2012.
4. Joel. L. Schiff, "The Laplace Transforms: Theory and Applications", Springer, 2008.
5. Fourier and Laplace Transform By R.J. Becrends H.G., Morsche . J.C. Vande Berg and E.M. Vande Vrie, Cambridge Press 2003.

B.Sc. T.Y. Semester-VI
DSEM-6, Section-C
Paper XVII (A): Topology

No. of periods: 60

Max. Marks: 50

Credits: 2

Unit I: Set Theory and Logic:

Fundamental Concepts, Functions, Relations, The Integers and the Real Numbers, Cartesian Product, Finite Sets, Well-ordering Theorem,

Topological Spaces and Continuous Functions:

Topological Spaces, Basis for Topology.

Unit II: Topological Spaces and Continuous Functions:

The Order Topology, The Product Topology, The Subspace Topology.

Unit III: Topological Spaces and Continuous Functions:

Closed Sets and Limit Points, Closure and Interior of a Set, Limit Points, Continuity of a Function, Definitions of Product Topology

Connectedness and Compactness:

Connected and Compact Spaces (Definitions only).

Text Book: R. Munkres, "Topology: A First Course", Prentice Hall of India.

Scope:

Unit I : Chap. 1: Art. 1.1 to 1.6, Art. 1.7 (Statements of Theorems), Art. 1.10

Chap. 2: Art. 2.1, 2.2.

Unit II : Chap. 2: Art. 2.3, 2.4, 2.5.

Unit III: Chap. 2: Art. 2.6, 2.7, 2.8 (Definitions), Chap. 3: Art. 3.1(Theorems without proof 1.5, 1.6), 3.5 (Definitions and Examples).

References:

1. John Horvath, "Topological Vector Spaces & Distribution", Addison-Wesely, Publishing Company 1966.
2. F. Trèves, "Topological Vector spaces, Distribution, Kernel", Academic Press, Inc., New York, 1967.
3. G. Kothe, "Topological Vector spaces", Vol.1, Springer, New York, 1969.
4. R. Larsen, "Functional Analysis", Marcel Dekker, Inc., New York, 1973.
5. Walter Rudein, "Functional Analysis", TMH edition, 1974.

B.Sc. T.Y. Semester-VI
DSEM-6, Section-C
Paper XVII (B): Mechanics-II (Dynamics)

No. of periods: 60

Max. Marks: 50

Credits: 2

Unit I: Kinematics and Dynamics of a Particle in Two Dimensions:

Introduction, Definitions, Expressions for Velocity and Acceleration, Components of Velocity and Acceleration, Tangent and Unit Vector along the Tangent, Curvature and Principal normal, Tangential and Normal Components of Velocity and Acceleration, Angular Speed and Angular Velocity, Angular Acceleration, Radial and Transverse directions, Radial and Transverse Components of Velocity and Acceleration.

Unit II: Kinetics of a Particle:

Introduction, Newton's Laws of Motion, Deductions from Newton's Laws of Motion, Matter, Mass, Weight, Linear Momentum, Moment of Momentum or Angular Momentum, Impulsive Force and its Impulse, Conservation of Linear Momentum, Impact of two bodies, Work, Power, Energy, Scalar Point Function and Scalar Field, Vector Point Function and Vector Field, Field of Force, Conservative Field of Force, Potential Function..

Unit III: Motion of a Projectile and Motion in Resisting Medium:

Rectilinear Motion, Motion under gravity, Motion of Projectile and Derivation of Equation of its trajectory, Cartesian Equation of the path of Projectile, Vertex and Latus rectum of the Parabola, Velocity of a Particle in terms of its height, Range on an inclined Plane, Projectile to pass through a given Point, Relation $t_1 t_2 = 2R/g$.

Text Book: Tulsani, Warhekar, N. N. Saste, Mechanics and Differential Geometry, S. Chand and Co.

Scope:

Unit I : Chap. 1: Art. 1.01 to 1.13.

Unit II : Chap. 2: Art. 2.01 to 2.25.

Unit III: Chap. 3: Art. 3.01 to 3.10 and 3.13, 3.14.

References:

1. B.R. Thakur and G.P. Shrivastav, "Mechanics", Ram Prasad and Sons, Agra-3, New Edition, New Delhi.
2. Shanti Narayan, "Mechanics" S. Chand and Co.
3. S. L. Loney, "An elementary Treatise on Statics", A.I.T.B.S. Publishers and Distributers 2004, New Delhi.
4. J. N. Kapoor and J. D. Gupta , "A text Book of Dynamics", 5th Ed, Ramchand and Co. Delhi
5. M Ray, "A Text Book of Dynamics", S. Chand & Co.

B.Sc. T.Y. Semester-VI
DSEM-6, Section-C
Paper XVII (C): Elementary Number Theory

No. of periods: 60

Max. Marks: 50

Credits: 2

Unit I: Preliminaries: Mathematical Induction, The Binomial Theorem, **Divisibility Theory in Integers:** Division Algorithm, Greatest Common Divisor, Euclidian Algorithm, Diophantine Equation.

Unit II: Primes and Their Distribution: The Fundamental Theorem of Arithmetic, The Sieve of Eratosthenes, The Goldbach Conjecture.

Unit III: The Theory of Congruences: Basic Properties of Congruence, Binary and Decimal Representations of Integers, Linear Congruences, The Chinese Remainder Theorem.

Text Book: David M. Burton, “Elementary Number Theory”, McGraw- Hill Education (India), Private Limited, 7th Edition.

Scope:

Unit I : Chap. 1: Art. 1.1, 1.2.
 Chap. 2: Art. 2.2 to 2.5.
Unit II : Chap. 3: Art. 3.1 to 3.3.
Unit III: Chap. 4: Art. 4.2 to 4.4.

References:

1. A. Baker, “A Concise Introduction to the Theory of Numbers”, Cambridge University Press, 1984.
2. J. P. Serre, “A Course in Arithmetic- GTM Vol.7”, Springer Verlag, 1973.
3. Tom M. Apostol, “Introduction to Analytic Number Theory”, Norosa Publishing House, 1980.
4. I. Niven and Zuckerman, “An Introduction to the Theory of Numbers”, Wiley, New York, 4th Edition, 1980.
5. Rosen K.H., “Elementary Number theory and its Applications”, Pearson Addition Wesley, 5th Edition.

B.Sc. T.Y. Semester-VI
SECM-IV

No. of periods: 45

Max. Marks: 50

Credits: 2

Choose any one of following skill.

SECM-IV (A) Insurance Mathematics:

Basic annuities: Introduction, Annuity-immediate, Annuity-due, Annuity values on any date, Perpetuities, Unknown time, Unknown rate of interest, Varying interest, Annuities not involving compound interest.

References:

1. Kellison Stephen G., The Theory of Interest, 3rd Edition. McGraw-Hill International Edition (2009).
2. UK Institute of Actuaries core leading for the subject CT1-Financial Mathematics.
3. Elliott R.J. and Kopp P.E. Mathematics of Financial Markets. Springer.1999

SECM-IV(B) Solving problems in Numerical Analysis using Mathematical Software like Matlab, Mapple, Scilab and other software

References:

1. Getting Started With MATLAB 7 - Rudra Pratap, Oxford University Press, (Indian Eden) www.oup.com
2. Satish Annigeri, "An Introduction to Scilab" December 2009.
3. Sandeep Nagar, "Introduction to Scilab For Engineers and Scientists", APRESS.
4. Introduction to Scilab – Michaël Baudin, Consortium Scilab, 2010
5. The Scilab Consortium. Scilab. <http://www.scilab.org>.
6. Sylvestre Ledru. Different execution modes of Scilab. http://wiki.scilab.org/Different_execution_modes_of_Scilab.
7. Atlas - automatically tuned linear algebra software. <http://math-atlas.sourceforge.net>.
8. Cecill and free software. <http://www.cecill.info>.
9. Intel. Intel math kernel library. <http://software.intel.com/en-us/intel-mkl/>.
10. Flexdock project. Flexdock project home. <https://flexdock.dev.java.net/>.

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)
Faculty of Science and Technology
Subject: Microbiology
B. Sc. Third year (Semester- V & VI)
Semester Pattern effective from June -2018

Semester/ Annual	Course No.	Name of the Course	Instruction Hrs./ Week	Total Periods	Internal Evaluation (CA)	End Semester Examination (ESE)	Total Marks	Credits
V Semester	DSEMBI (Section A)	Microbial Genetics (P – XII)	03	45	10	40	50	2
	DSEMB I[Section B I] OR DSEMB I[Section B II]	Microbial Metabolism (P – XIII A) OR Nitrogen Metabolism (P – XIII B)	03	45	10	40	50	2
VI Semester	DSEMBII (Section A)	Molecular Biology (P-XIV)	03	45	10	40	50	2
	DSEMB II [Section B I] OR DSEMB II [Section B II]	Industrial Microbiology (P – XVA) OR Pharmaceutical Microbiology (P – XVB)	03	45	10	40	50	2
Annual Practicals / Skill	DSEMBP I [DSEMB I & II Section A]	Practicals Based on P – XII & P -XIV (P -XVI)	04	10 Practical	10	40	50	2
	SECMB III (A OR B)	Enzyme Technology (A) OR Molecular Biology Techniques (B)	03	45	25	25	50	(02) *
Annual Practicals / Skill	DSEMBP II [DSEMB I & II (Section B I & II)]	Practicals based on P -XIII A & B & P – XV A & B (P -XVII)	04	10 Practical	10	40	50	2
	SECMB IV (A OR B)	Bioprocess Technology (A) OR Good Manufacturing Practices (B)	03	45	25	25	50	(02) *
Total Credits Semester V & VI								12 (04*)

DSEMB – Discipline Specific Elective Microbiology
DSEMBP – Discipline Specific Elective Microbiology Practical
SECMB – Skill Enhancement Course Microbiology
ESE – End Semester Examination
CA – Continuous Assessment

Outline and Salient Feature:

B. Sc. Third year Microbiology syllabus is crafted to serve the need of choice based credit system course structure to orient and practically train students in the field of Microbiology. The course is specifically bringing discipline elective and skilled enhanced courses together dealing additional domain of knowledge in this field of study where in DSE course based on microbial genetics and molecular biology is concerned with genes, mutation, recombination, DNA replication, transcription, translation, associated phenomena and their manipulation and techniques of such manipulation.

Another DSE course (with choice) provide an option to learn diverse metabolic events occurring in view of the particular microorganisms and its environment and agriculture and to relate this information to a biology as a whole. This course is giving emphasis on enzymology, microbial metabolism, nitrogen metabolism and also offer industrial microbiology or pharmaceutical Microbiology as DSE courses is an area of applied microbiology which deals production of various useful end products on large scale.

Skill enhanced courses on enzyme, bioprocess technology, GMP and molecular biology techniques is well suited to understand application of scientific and engineering skills to the processing of materials by microorganisms.

Utility:

The syllabus of B. Sc. Third year microbiology course will orient and train the students in view of microbial genetics and molecular biology, occurrence of metabolic events and its relation to environment and agriculture, Industrial and Pharmaceutical Microbiology to understand and apply this knowledge for carrier orientation.

SE Course will provide additional opportunity for a student to develop skills of interest in this field of study.

Learning Objectives:

The learning or training objectives of SEC has been mentioned below the skill of the course.

Prerequisite:

The course is offered for a student registered for undergraduate programme in the faculty of Science and technology who had primary training in the field of microbial sciences and also likes to gain additional advanced knowledge in this field of science.

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)
Faculty of Science and Technology
Subject: Microbiology
Paper Name: Microbial Genetics DSEMB I (Section A)]
Paper Number: XII

Credits: 02 (Marks: 50)

Periods: 45

Unit – I The Genetic Material 09

- a) Evidences for DNA as genetic material
 - i. Griffith Experiment, Avery *et al* Experiments,
 - ii. Hershey and Chase Experiment
- b) Discovery of RNA as viral genetic material
 - i. Gierer and Schramm Experiment (TMV)
- c) Properties of DNA as Genetic Material
- d) Chemical stability of DNA and its information content
- e) Structure of prokaryotic Chromosomes
 - i. *E. coli*- The model genetic organism

Unit – II Prokaryotic DNA replication 12

- a) General Concepts of DNA Replication
- b) Semi Conservative DNA Replication
- c) Replicon Model (Cairns Model), Precursors and Enzymes of DNA Replication
- d) Mechanism of DNA Replication: Initiation, Elongation (Beta Clamp and Progressive Polymerases) and Termination
- e) Replication in *E. coli* (In Short)

Unit – III Molecular Recombination in Bacteria 12

- a) General Perspective of Genetic Recombination (with Holliday Model as example)
- b) Homologous Recombination in *E. coli* (Initiation, Synapsis, Branch Migration and resolution)
- c) Types of Recombination
 - i. Site Specific Recombination (Integrative and Excessive Recombination)
 - ii. Illegitimate Recombination (Non-Homologous Recombination)
 - iii. Transposition:
 - a. Transposable elements in Prokaryotes
 - b. Insertion Sequence

- a) Transformation
 - i. Introduction and History
 - ii. Mechanism of transformation
 - iii. Competence, Binding, Penetration, Synapsis and Integration.
- b) Conjugation
 - i. Discovery of conjugation in bacteria
 - ii. Properties of F plasmid/Sex factor
 - iii. Hfr strains and their formation
 - iv. Mechanism of Conjugation
 - v. F 'factor and Sexduction
- c) Transduction
 - i. Introduction and discovery
 - ii. Generalized and Specialized transduction
 - iii. Abortive transduction

References:

1. **Biochemistry** by Jeremy M Berg, John L Tymoczko, and Lubert Stryer International 5th Edition, Publisher: W. H. Freeman & Company
2. **Essentials of Molecular Biology** by David Freifelder (2002), Publisher: Narosa Publishing House.
3. **Fundamental Bacterial Genetics** by Nancy Trun and Jenanine Trumphy (2003), Publisher: Blackwell Publishing
4. **General Microbiology** (5th edn.) Stanier R. Y., Ingraham, J.L., Wheelis, M. L., Painter, P.R.(2008), Publisher: Macmillan Press Ltd, London
5. **General Microbiology (Vol. I and II)** Powar, C.B. and Dagainawala, H.F.(2008), Publisher: Himalaya publishing house
6. **Genetics a conceptual approach** (3rd ed.) by Benjamin A. Pierce (2008) Publisher: W.H. Freeman and Company.
7. **Genetics-A molecular approach** (2nd /3rd ed.) by Peter J. Russell (2006)
8. **Modern Microbial Genetics**, Second Edition. Edited by Uldis N. Streips, Ronald E. Yasbin. Publisher: Wiley-Liss, Inc.
9. **Principles of Genetics** by R. H. Tamarin, (2004) Publisher: Tata McGraw Hill.
10. **Willey, Joanne M. Prescott, Harley, and Klein's Microbiology** / Joanne M. Willey, Linda M. Sherwood, Christopher J. Woolverton. — 7th ed. Published by McGraw-Hill, a business unit of The McGraw-Hill Companies, Inc., 1221 Avenue of the Americas, New York, NY 10020.
11. **Brock Biology of Microorganisms**, Thirteenth Edition by Michael T. Madigan, John M. Martinko, David A. Stahl, David P. Clark, Benjamin Cummings, 1301 Sansome Street, San Francisco, CA 94111.
12. **Manual of Methods for Pure Culture Study**, by A. B. Solunke, P. S. Wakte, V. D. Hamde, and R. S. Awasthi, Nirmal Publication Delhi (India)

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)
Faculty of Science and Technology
Subject: Microbiology
Paper Name: Microbial Metabolism DSEMB I (Section B I)
Paper Number: XIII A

Credits: 02 (Marks: 50)

Periods: 45

Unit – I Enzymes

15

- a) Definition, Physicochemical properties of enzymes
- b) Coenzymes and Cofactors
- c) Nomenclature and Classification of enzymes
- d) Mechanisms of enzyme action
- e) Specificity of enzymes
- f) Enzyme kinetics: Michaelis-Menten equation
- g) Factors affecting enzyme activity
- h) Inhibition of enzyme activity: Competitive, Non-competitive and Uncompetitive inhibition.
- i) Regulation of enzyme activity: Allosteric enzymes, Multienzyme system and Isoenzymes.

Unit – II Microbial Metabolism

15

- a) Introduction to metabolism, catabolism and anabolism with examples.
- b) Role of nucleotides in metabolism: Nucleotides as building blocks of nucleic acids; ATP as currency of cell; Pyridine and Flavin nucleotides.
- c) Basic pathways of carbohydrate catabolism: EMP, HMP, ED, and PKP, TCA cycle.
- d) β -Oxidation of saturated and unsaturated fatty acids

Unit – III Mechanisms of Energy Transformations in Microorganisms

08

- a) Respiration, Photosynthesis and Fermentation (Basic concepts).
- b) Generation of ATP: Oxidative Phosphorylation, Photophosphorylation and Substrate level Phosphorylation.
- c) Biochemical mechanisms of respiration in Heterotrophs and Chemoautotrophs.
- d) Respiratory electron transport chain in bacteria.
- e) Characteristics of Bacterial RETC and It's Components.

Unit – IV Microbial Fermentations

07

- a) Ethanol fermentation by yeasts and bacteria.
- b) Lactic acid fermentation: Homo and Heterolacta fermentation.
- c) Mixed acid fermentation.
- d) Acetone-Butanol fermentation.
- e) Butanediol fermentation.
- f) Succinic acid fermentation.

References:

1. D. L. Nelson and M. M. Cox. '*Lehninger Principles of Biochemistry*', Macmillan Int.
2. J. M. Berg, J. L. Tymoczko and L. Stryer. '*Biochemistry*' 6th edition, W. H Freeman and Company.
3. S. C. Rastogi. '*Biochemistry*'. Tata McGraw Hill Publishing Company, New Delhi.
4. Gottschalk G. '*Bacterial Metabolism*'. Springer, New York.
5. Doelle H. W. '*Bacterial Metabolism*'. Elsevier, New Delhi.
6. Sandikar B. M. '*Basic Biochemistry and Microbial Metabolism*'. Himalaya Publishing House, Mumbai.
7. Moat A. G., Foster J. W. and Spector M. P. '*Microbial Physiology*'. Wiley-India.
8. Conn E. E. and Stmph P. K. '*Outlines of Biochemistry*' John Wiley & Sons, New Delhi.
9. **Brock Biology of Microorganisms**, Thirteenth Edition by Michael T. Madigan, John M. Martinko, David A. Stahl, David P. Clark, Benjamin Cummings, 1301 Sansome Street, San Francisco, CA 94111.

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)
Faculty of Science and Technology
Subject: Microbiology
Paper Name: Nitrogen Metabolism DSEMB I (Section B II)
Paper Number: XIII B

Credits: 02 (Marks: 50)

Periods: 45

Unit – I Fixation of Molecular Nitrogen	10
a) Nitrogen Fixing Organisms	
b) Biochemical mechanism of Nitrogen Fixation	
c) Structure and properties of Nitrogenase	
d) Regulation of Nitrogenase	
Unit – II Biochemistry of Bacterial Nitrification/Denitrification	12
a) Microbiology and Biochemistry of	
i. Oxidation of Ammonia and Hydroxyl amine	
ii. Electron transport pathway coupled to oxidation of Ammonia	
iii. Oxidation of Nitrite	
iv. Denitrification	
Unit – III Nucleotide Metabolism	11
a) Biosynthesis of Purine	
b) Biosynthesis of Pyrimidine	
c) Catabolism of Nucleotides	
Unit – IV Biosynthesis of Amino acids	12
a) Biosynthesis of	
i. Oxaloacetate and Pyruvate families of amino acids	
ii. Phosphoglyecrate family of amino acids	
iii. α – oxoglutaratefamily of amino acids	
iv. Aromatic amino acids	
v. Histidine Synthesis	

References:

1. D. L. Nelson and M. M. Cox. '*Lehninger Principles of Biochemistry*', Macmillan Int.
2. J. M. Berg, J. L. Tymoczko and L. Stryer. '*Biochemistry*' 6th edition, W. H Freeman and Company.
3. S. C. Rastogi. '*Biochemistry*'. Tata McGraw Hill Publishing Company, New Delhi.
4. Gottschalk G. '*Bacterial Metabolism*'. Springer, New York.
5. Doelle H. W. '*Bacterial Metabolism*'. Elsevier, New Delhi.
6. Sandikar B. M. '*Basic Biochemistry and Microbial Metabolism*'. Himalaya Publishing House, Mumbai.
7. Moat A. G., Foster J. W. and Spector M. P. '*Microbial Physiology*'. Wiley-India.
8. Conn E. E. and Stmph P. K. '*Outlines of Biochemistry*' John Wiley & Sons, New Delhi.
9. **Brock Biology of Microorganisms**, Thirteenth Edition by Michael T. Madigan, John M. Martinko, David A. Stahl, David P. Clark, Benjamin Cummings, 1301 Sansome Street, San Francisco, CA 94111.

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)
Faculty of Science and Technology
Subject: Microbiology
Paper Name: Molecular Biology DSEMB II (Section A)
Paper Number: XIV

Credits: 02 (Marks: 50)

Periods: 45

Unit – I Gene Expression **10**

- a) Genetic code
- b) Characteristics of Genetic code: Triplet code, comma free, non-overlapping, degenerate, start and stop signals and wobble hypothesis
- c) Structure of RNA Polymerase (RNAP)
- d) Process of transcription
- e) Structure of Ribosome
- f) Process of Translation
- g) Bacterial Transcriptional and Translational Cycle

Unit – II Mutagenesis and DNA Repair **10**

- a) Concept of Mutation
- b) Types of Mutations: Silent, Missense, base pair substitutions or switches and frameshift mutations, induced and spontaneous mutation
- c) Mechanism of Spontaneous Mutation: Mismatching of Bases due to Tautomerism, Deamination, Depurination and Damage due to Oxidative Metabolism
- d) Mechanism of Induced Mutation: Physical and Chemical Mutagenic agents
- e) Repair of DNA by
 - i. Photo-reactivation
 - ii. Nucleotide Excision Repair (NER)
 - iii. Base Excision Repair (BER)
 - iv. Mismatch Excision Repair (MER)

Unit – III Regulation of Gene expression in Prokaryotes **11**

- a) Gene regulation at Transcription level: Repressors, Activators, Sigma factor and Attenuation
- b) Gene regulation at Translation level
- c) The *lac* Operon of *E. coli*
- d) The *trp* Operon of *E. coli*

Unit – IV Molecular Techniques and Applications **14**

- a) Introduction, Definition and purpose of Cloning
- b) Tools for molecular cloning
 - i. **ENZYMES:** Restriction endonucleases, DNA ligases, alkaline phosphatase, DNA Modifying enzymes
 - ii. **VECTORS:** Plasmids- pBR322, Bacteriophage- Phage λ , Cosmids
- c) Methods of Gene Transfer

- i. Transformation
 - ii. Electroporation
 - iii. Liposome Fusion
 - iv. Transduction
- d) Screening Strategies (In short)
 - i. Insertional Inactivation
 - ii. Immunochemical Methods
 - iii. Colony hybridization
- e) Application:
 - i. Expression of Human insulin gene in *E. coli*

References:

1. **Genetics-A molecular approach (2nd /3rd ed.)** by Peter J. Russell (2006)
2. **Genetics a conceptual approach (3rd ed.)** by Benjamin A. Pierce (2008) Publisher: W.H. Freeman and Company.
3. **Principles of Genetics** by R. H. Tamarin, (2004) Publisher: Tata McGraw Hill.
4. **Essentials of Molecular Biology** by David Freifelder (2002), Publisher: Narosa Publishing House.
5. **General Microbiology** (5th edn.) Stanier R. Y., Ingraham, J.L., Wheelis, M. L., Painter, P.R.(2008), Publisher: Macmillan Press Ltd, London
6. **General Microbiology (Vol. I and II)** Powar, C.B. and Dagainawala, H.F.(2008), Publisher: Himalaya publishing house
7. **Biotechnology** by Satyanarayana U. (2007), Publisher: Books and Allied Pvt. Ltd.Kolkata.
8. **Molecular Biology and Genetic Engineering** by Narayanan, Moni, Selvaraj, Singh, Arumugam (2004) Publisher: SarasPublication, Nagercoil, Kanyakumari.
9. **Modern Microbial Genetics**, Second Edition. Edited by Uldis N. Streips, Ronald E. Yasbin. Publisher: Wiley-Liss, Inc.
10. **Fundamental Bacterial Genetics** by Nancy Trun and Jenanine Trumphy (2003), Publisher: Blackwell Publishing. r: Tata McGraw Hill.
11. **Willey, Joanne M. Prescott, Harley, and Klein's Microbiology** / Joanne M. Willey, Linda M. Sherwood, Christopher J. Woolverton. — 7th ed. Published by McGraw-Hill, a business unit of The McGraw-Hill Companies, Inc., 1221 Avenue of the Americas, New York, NY 10020.
12. **Brock Biology of Microorganisms**, Thirteenth Edition by Michael T. Madigan, John M. Martinko, David A. Stahl, David P. Clark, Benjamin Cummings, 1301 Sansome Street, San Francisco, CA 94111.

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)
Faculty of Science and Technology
Subject: Microbiology
Paper Name: Industrial Microbiology DSEMB II (Section B I)
Paper Number: XV A

Credits: 02 (Marks: 50)

Periods: 45

UNIT I: Definition and Scope of Industrial Microbiology **08**

- a) Introduction, Definition, Scope and Development of Industrial Microbiology
- b) Role of Microbiologist in Industrial Microbiology
- c) Bioreactor (Definition, Ideal Design and characteristics, Working of Auxiliary equipment)
- d) Types of Fermenter: laboratory fermenter, pilot plant fermenter, industrial fermenter, Horton sphere. Batch, continuous, Tubular, fed batch, fluidised bed reactor, tower fermenter (In brief)
- e) Computer application in fermentation technology

UNIT II: Microbes in Industrial Microbiology **09**

- a) Introduction, Screening Techniques (Primary and Secondary)
- b) Strain improvement
- c) Stock culture and its maintenance (serial subculture, overlaying with mineral oil, lyophilization, liquid nitrogen, soil stock)
- d) Inoculum development, Fermentation media (substances used as raw materials for formulation of fermentation media) and its sterilization (batch and continuous)

UNIT III: Downstream processing **14**

- a) Introduction, Extraction of fermentation products, solids (Insoluble) removal (Filtration, centrifugation, coagulation and flocculation, foam fractionation,)
- b) Primary isolation of product (Cell disruption, liquid extraction, ion exchange adsorption, precipitation)
- c) Purification (Chromatography, carbon decolorization, crystallization), Product Isolation(Crystalline processing, drying, packing etc).

UNIT IV: Typical Fermentative production **14**

- a. Production strain, Fermentation media, Fermentation conditions, Metabolic pathway involved in synthesis of the product, Product recovery operations, and uses of following:
 - i. Beverages: Wine
 - ii. Organic acid: Citric acid
 - iii. Antibiotics: Penicillin
 - iv. Biofertilizers: Legume inoculants
 - v. Bioinsecticide: Thuricide
 - vi. Amino acids: Glutamic acid
 - vii. Enzymes: Fungal Amylase

REFERENCES:

- 1. Industrial Microbiology** by A.H. Patel.
- 2. Industrial Microbiology** by Prescott & Dunn.
- 3. Industrial Microbiology** by Casida
- 4. Biotechnology: A text book of Industrial Microbiology** by Cruger and Cruger
- 5. Modern Industrial Microbiology and Biotechnology** by Nduka Okafor
- 6. Industrial Microbiology: An Introduction by Wastes, Morgan, Rockey and Higten**
- 7. Practical Microbiology** by Maheshwari and Dubey

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)
Faculty of Science and Technology
Subject: Microbiology
Paper Name: Pharmaceutical Microbiology DSEMB II (Section B II)
Paper Number: XV B

Credits: 02 (Marks: 50)

Periods: 45

UNIT I: Microbiology and Pharmaceuticals **10**

- a. Introduction, Overview and application of Pharmaceutical Microbiology
- b. Microbiological tests useful for Pharmaceutical sector
- c. Role of microbiologist in Laboratory Management and Design

UNIT II: Good Laboratory Practice and Safety techniques **11**

- a. Introduction to Good Laboratory Practice and safety, Pharmacopeia and microbiological test
- b. Bioburden determination – Total microbial count, units of Measurement, Non sterile products and microbial limit testing, In-process material assessment Presterilization bioburden assessment, alternative methods of bioburden Assessment
- c. Specified and objectionable microorganisms- indicator microorganisms
- d. Determining which microorganism are objectionable and assessing risk

UNIT III: Contamination and infection control **12**

- a. Microbial spoilage, infection risk and contamination control
- b. Laboratory evaluation of non-antibiotic and antimicrobial agents
- c. Chemical disinfectants, antiseptics and preservatives
- d. Non-antibiotics, antimicrobial agents, mode of action and resistance
- e. Sterilization procedures and sterility assurance

UNIT IV: Pharmaceutical production **12**

- a. Pharma products microbial origin:
 - i. Dextran
 - ii. Vitamin (riboflavin) fermentation
 - iii. Enzyme – Streptokinase
- b. Sterile Pharmaceutical Products
 - i. Injections, non-injectionable sterile fluids
 - ii. Ophthalmic preparation
 - iii. Absorbable haemostatics
 - iv. Surgical ligatures and sutures
- c. The manufacture and quality control of immunological products
 - i. Vaccines
 - ii. Immunsera
 - iii. Human immunoglobulin
- d. Recombinant DNA techniques
 - i. Somatostatin

- ii. Insulin
- iii. Interferon

References:

1. **Good Manufacturing Practices for Pharmaceuticals** by Sydney H. Willing, Murray. M. Tuckerman, Willam S. Hitching IV. Second edition Mercel Dekker NC New York
2. **Pharmaceutical Biotechnology** by S. P. Vyas & V. K. Dixit. CBS publishers& distributors, New Delhi
3. **Pharmaceutical Microbiology** by W. B. Hugo & A. R. Russel Sixth Edition. Blackwell Scientific Publications
4. **Pharmacognosy** by Gokhle S. D., Kokate C.K. Edition: 18 Nirali Publication
5. **Biotechnology – Expanding Horizon** by B. D. Singh, First Edition, Kalyani Publication, Delhi.

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)
Faculty of Science and Technology

Subject: Microbiology

**Paper Name: Practicals Based on P – XII & P – XIV (DSEMBP I [DSEMB I & II
Section A])**

Paper Number: XVI

Credits: 02

Marks: 50

(Annual practical Based on [DSEMB I& II (Section A)] (Practical syllabus requires four periods per batch per week for 2 consecutive days B.Sc. Third year practical includes studies of growth of microorganisms and life activities of Microorganisms. These studies need two consecutive days for completion of practical.)

1. Purification of chromosomal/plasmid DNA and study of DNA profile.
 - i. Confirmation of nucleic acid by spectral study.
 - ii. Quantitative estimation by diphenylamine test.
 - iii. DNA denaturation and determination of T_m and G + C contents.
 - iv. Agarose gel electrophoresis of DNA.
2. Effect of UV radiations
 - i. To study the survival pattern of *E.coli*/yeast
 - ii. Repair mechanisms in *E.coli* / yeast (Dark and Photo reactivation).
3. Isolation of antibiotics resistant Bacterial Mutants by Physical/ Chemical agents.
4. Ampicillin selection method for isolation of auxotrophic mutants.
5. Extraction and purification of RNA from *S. cerevisiae*.
6. Studies on gene expression in *E. coli* with reference to Lac operon.
7. Study of Conjugation in *E. coli*.
8. Restriction digestion and Agarose gel electrophoresis of DNA.
9. Generalized Transduction in *E. coli* using p1 phage
10. Determination of MIC and LD50 of Streptomycin

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)
Faculty of Science and Technology

Subject: Microbiology

**Paper Name: Practicals Based on P – XIII A & B & P – XVA & B (DSEMBP II
[DSEMB I & II Section B I& II])**

Paper Number: XVII

Credits: 02

Marks: 50

(Annual practical Based on [DSEMB I& II (Section B)]) (Practical syllabus requires four periods per batch per week for 2 consecutive days B.Sc. Third year practical includes studies of growth of microorganisms and life activities of Microorganisms. These studies need two consecutive days for completion of practical.)

1. Estimation of reducing sugar by Sumner's method.
2. Estimation of Amino acids by Rosen's method
3. Study of enzymes (Lecithinase, Gelatinase, Urease, Caseinase, Catalase)
4. Fermentative production of Production of amylase
5. Effect of various physicochemical parameters on amylase activity (pH, Temp)
6. Primary screening of antibiotic producers, amylase producers, organic acid producers
7. Production of Penicillin (Surface / submerged)
8. Fermentative production of Wine & and its estimation by Titrable acidity
9. Production of Citric acid (Surface / submerged) & its estimation by Titrable acidity
10. Production of Biofertilizer (*Azotobacter*)
11. Bioassay of Penicillin
12. Bioassay of therapeutic enzyme glucose oxidase
13. Determination of antimicrobial activity of chemical compound (Phenol)
14. Sterility testing by using *Bacillus stearothermophilus* / *Bacillus subtilis*

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)
Faculty of Science and Technology
B. Sc. Third (V and VI Semester)
Pattern of Theory Question Paper and Scheme of Marking
Subject: Microbiology

Paper:

Title of Paper:

Time: 2Hrs

Marks: 40

-
- N.B. i) Attempt All Questions.
ii) All Questions carry equal Marks
iii) Illustrate your answers with suitable labelled diagrams wherever necessary.

Q.1 Attempt Any Four of the followings: (Each of Two Marks) [Based on UNIT I, II, III, IV] 08

- a)
- b)
- c)
- d)
- e)
- f)

(Minimum one and Maximum two from each Unit)

Q. 2 Attempt Any Two of the followings: (Each of Four Marks) [Based on Unit I & Unit II] 08

- a)
- b)
- c)

(Minimum one and Maximum two from each Unit)

Q. 3 Attempt Any One of the followings: (Each of Eight Marks) [Based on Unit I & Unit II] 08

- a)
- b)

Q. 4 Attempt Any Two of the followings:(Each of Four Marks) [Based on Unit III & Unit IV] 08

- a)
- b)
- c) M

Q. 5 Attempt Any One of the following: (Each of Eight Marks) [Based on Unit III & Unit IV] 08

- a)
- b)

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)
Faculty of Science and Technology
Subject: Microbiology
Paper Name: Enzyme Technology (SECMBIII A)
Paper Number: Skill - III

Credits: 02

Marks: 50

-
1. Introduction
 - i. Sources of enzymes and their classes
 - ii. Application of enzymes in
 - a. Industrial paper and textile
 - b. Biomedical and in drug design
 - c. Dairy, food and brewing industry
 - d. Artificial enzymes and Recombinant enzymes
 - e. Enzymes as biosensors
 2. Methods of enzyme isolation
 - i. Cell lysis methods –
 - a. Osmotic shock
 - b. Enzyme lysis
 - c. Homogenization
 - d. Ultra centrifugation
 - ii. Concentration of enzymes by
 - a. Precipitation (Ammonium sulphate)
 - b. Dialysis of protein
 - c. Heat treatment
 - d. Nucleic acid removal
 3. Enzyme purification, characterization based on
 - i. Size and mass (centrifugation, GPC Gel Permeation chromatography, Dialysis and ultracentrifugation)
 - ii. Polarity (ion exchange electrophoresis)
 - iii. Changes in solubility (change in pH, Change in ionic strength, salting in or salting out)
 - iv. Change in dielectric strength by isoelectric focusing and adding organic solvent, hydrophobic interaction chromatography
 - v. Specific binding sites (Affinity chromatography, Affinity elution, Dye – ligand chromatography, immune adsorption chromatography, co – valent chromatography)
 4. Immobilization of enzymes methods
 - i. Adsorption
 - ii. Covalent bonding
 - iii. Entrapment and membrane confinement
 - iv. Application in - analytical, therapeutic, industrial

Practices:

Fungal Amylase

1. Production
2. Isolation methods
3. Purification methods
4. Assay and activity procedure
5. Immobilization techniques of fungal amylase

Training Objectives:

1. To understand the importance of enzymes in day today life
2. To practically isolate and purify particular enzyme.

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)
Faculty of Science and Technology
Subject: Microbiology
Paper Name: Molecular Biology Techniques (SECMB III B)
Paper Number: Skill - III

Credits: 02

Marks: 50

1. Enzymes involved in genetic engineering
 - a. Restriction endonucleases type I, II, and III (Nomenclature and Classification, activity)
 - b. DNA ligase –
 - i. properties and specificities
 - ii. Activity and mode of Action
 - a. S Nuclease
 - b. DNA Polymerase
 - c. Phosphatase
 - d. Reverse transcriptase
2. Hybridization techniques
 - a. Northern, Southern & colony hybridization
 - b. Fluorescence in situ hybridization
 - c. Restriction map and mapping technique
 - d. DNA Finger printing
3. Cloning vector
 - a. Plasmids and their properties (pBR322, PUC18, its derivatives and construction)
 - b. Bacteriophage λ gt, 10/11
 - c. Cosmid vectors
 - d. Artificial chromosome vectors – YAC, BACS
 - e. Animal virus derived vector – SV40
4. Cloning methodologies
 - a. Insertion of Foreign DNA into the host cells – transformation
 - b. Plant transformation technology
 - i. Basic of tumour formation
 - ii. Features of Ti and Ri plasmids
 - iii. Mechanism of DNA transfer
 - iv. Use of Ti & Ri as plasmid vector

Practice:

1. Extraction and isolation of DNA
2. Confirmation of DNA by spectral studies
3. Agarose gel electrophoresis of DNA

OR

Industrial training on molecular biology techniques

Training Objectives:

1. To understand the importance of enzymes involved in genetic engineering.
2. To study the procedure of genetic engineering.

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)
Faculty of Science and Technology
Subject: Microbiology
Paper Name: Bioprocess Technology (SECMB IV A)
Paper Number: Skill - IV

Credits: 02

Marks: 50

1. Agro based Bioprocesses involved in manufacture of
 - a. Biocompost
 - b. Biofertilizers
 - c. Bioinsecticides
 - d. Biogas
 - e. Biofuel
2. Food and Dairy bioprocesses
Bioprocesses involved in production of
 - a. Bread
 - b. Idli, Dhokla, Dosa
 - c. Pickles
 - d. Yoghurt (curd) & buttermilk
 - e. Cheese
3. Industrial effluent Treatment
 - a. Physical, chemical
 - b. Biological treatment
 - i. Aerobic treatment processes – Trickling filters, biologically aerated filters, rotating biological contactors, rotating drums, fluidized – bed systems, activated sludge processes.
4. Anaerobic treatment process – anaerobic digestion, anaerobic digester, anaerobic filters, up – flow anaerobic sludge blankets (UASB)

Practice:

1. Ethanol production from Agri waste
2. Idli & Dosa preparation
3. Determination of COD of industrial effluent
4. Determination of BOD of industrial effluent

Training Objectives:

1. To understand the bioprocesses.
2. To study the role of microorganisms involved in treatment of sewage.

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)
Faculty of Science and Technology
Subject: Microbiology
Paper Name: Good Manufacturing Practices (GMP) (SECMB IVB)
Paper Number: Skill - IV

Credits: 02

Marks: 50

1. Quality Assurance & Validation
 - a. GMP & GLP in pharmaceutical industry
 - b. Regulatory aspects of quality control
 - c. Quality assurance & quality management in industry ISO, WHO & US certification
2. Sterilization & sterility testing
 - a. Heat sterilization
 - b. D – value, Z – value, survival curve
 - c. Radiation & Gaseous sterilization
 - d. Filter sterilization
3. Validation & in process monitoring of sterilization
 - a. Physical indicators
 - b. Chemical indicators
 - c. Biological indicators
 - d. Sterility testing
4. Design and layout of sterile product manufacturing unit
 - a. Designing of microbiology laboratory
 - b. Safety in microbiology lab

Practices:

1. Bioassay of Penicillin
2. Bioassay of therapeutic enzyme Glucose Oxidase
3. Determination of MIC & LD 50 of Streptomycin
4. Determination of antimicrobial activity of chemical compounds like Phenol
5. Sterility testing by using *Bacillus stearothermophilus* or *Bacillus subtilis*

Training Objectives:

1. To understand the importance of GMP in Pharmaceutical Industry.
2. To practically carry sterilization of Pharmaceutical Products.

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)
Faculty of Science and Technology
Subject: Microbiology
Paper Name: Practicals Based on P – XII & P – XIV (DSEMBP I [DSEMB I & II
Section A])
Paper Number: XVI
PROFORMA FOR PRACTICAL EXAMINATION

Time: Four hours per day per batch for two consecutive days

Marks: 40

- | | |
|---|----|
| 1. Effect of UV Radiation on survival of Yeast/Bacteria and Photo-reactivation | 15 |
| OR | |
| Purification of Chromosomal/Plasmid DNA and its confirmation | |
| 2. Isolation of antibiotic resistant mutants by induced mutation | 10 |
| OR | |
| Restriction digestion of DNA and its Gel Electrophoresis/Estimation of DNA/RNA | |
| 3. Studies on gene expression in <i>E. coli</i> with respect to <i>Lac</i> Operon | 10 |
| OR | |
| Transformation/Conjugation/Transduction in <i>E. coli</i> | |
| 4. Viva- voce | 05 |

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)
Faculty of Science and Technology
Subject: Microbiology
Paper Name: Practicals Based on P – XIII A & B & P – XVA & B (DSEMBP II
[DSEMB I & II Section B I])
Paper Number: XVII
PROFORMA FOR PRACTICAL EXAMINATION

Time: Four hours per day per batch for two consecutive days

Marks: 40

- | | |
|--|----|
| 1. Studies on enzymes Lecithinase/Gelatinase/Urease/Caseinase/Catalase (Any Three) | 15 |
| OR | |
| Penicillin Bioassay | |
| 2. Estimation of Reducing sugar (Sumner's method)/Amino-acid (Rosen's method) | 10 |
| OR | |
| Production of Biofertilizer/Legume Inoculants and its characterization | |
| 3. Estimation of Citric Acid/Wine (Titrable method) | 10 |
| OR | |
| Screening of Starch hydrolyser/Antibiotic producer/Organic acid producer | |
| 4. Viva- voce | 05 |

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)
CLASS: B. Sc. Physics SECOND YEAR
Semester III& IV
(W. e. f. June 2017)

Semester	Paper No.	Name of the Course	Instruction Hrs/ week	Total periods	CA	ESE	Total Marks	Credits
III	CCPIII (Section A)	Waves and Oscillations Theory paper (P-VI)	03	45	10	40	50	2
	CCP III (Section B)	Statistical physics, Electromagnetic Theory and Relativity Theory paper (P-VII)	03	45	10	40	50	2
	CCPP II (Annual Pattern Section A)]	P-X: Practical's based on P-VI	03	24	05	20	25	1
		Practical's based on P-VIII	03	24	05	20	25	1
	CCP S I (Section A)	SEC I (One SEC from any optional)	03	45	25	25	50	2
IV	CCP IV (Section A)	Optics and Lasers Theory Paper (P-VIII)	03	45	10	40	50	2
	CCPIV (Section B)	Basic Electronics Theory Paper (P-IX)	03	45	10	40	50	2
	CCPP III (Annual Pattern Section B)	P-XI: Practical's based on P-VII	03	24	05	20	25	1
		Practical's based on P-IX	03	24	05	20	25	1
	CCPSII (Section B)	SEC II (One SEC from any optional)	3	45	25	25	50	2
Total credits semester III and IV								16

CCP: Core course Physics SEC: Skill Enhancement Course ESE: End Semester Examination C. A.: Continuous Assessment (Internal)

(Note: ESE of CCPII, CCPIII and SEC I, SEC II should be evaluated at annual)

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course Structure (New scheme)

B. Sc. Second Year (Semester – III)

Semester Pattern effective from June -2017

Physics

CCP III (Section A)

Waves and Oscillations (P-VI)

Credits: 02 (Marks: 50)

Periods: 45

Unit –I: Waves:

(10 Periods)

Wave velocity and particle velocity, Differential equation of wave motion, Energy of a plane progressive wave, Equation of motion of a vibrating string, Velocity of transverse waves along a string, Frequency and period of vibration of a string,

Unit—II: Stationary waves:

(11 Periods)

Analytical treatment of stationary waves (closed end & open end pipe at the other end), Investigation of pressure and density changes at displacement Nodes and Antinodes, Distribution of Energy in a stationary wave, Energy is not transferred in a stationary waves.

Unit - III: Free and Forced Vibrations:

(12 Periods)

Free Vibrations, Forced Vibrations, Resonance, Oscillatory Motion of a particle from energy considerations, Damped simple harmonic motion, Aperiodic, Critically Damped Oscillatory Motions, Effect of damping on Frequency, Forced Vibrations, resonance and sharpness of resonance.

Unit –IV: Acoustics and Ultrasonics:

(12 Periods)

Reverberation, Reverberation time, Derivation of Reverberation Time (Sabine's formula), Absorption coefficient, Determination of absorption coefficient (reverberation Chamber Method), Conditions for good acoustical designs of auditorium, Ultrasonics, Piezo-electric & magnetostriction effect, Piezoelectric Oscillator, magnetostriction oscillator, Detection of ultrasonic waves: Acoustic grating

Books Recommended:

1. Waves and Oscillations – Brijlal and Subrahmanyam. (Vikas Publishing House)
2. Text Book of Sound with Theory of Oscillations and waves – D. R. Khanna and R. S. Bedi. (Atma Ram & Sons Delhi)
3. A text book of Sound - N. Subrahmanyam, Brijlal
4. Sound - M. Ghosh
5. Text Book of Sound - Sharma & Saxena (New Age international publishers)
6. Physics of Vibrations & Waves - H.J.Pain (John Wiley & So

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course Structure (New scheme)

B. Sc. Second Year (Semester – III)

Semester Pattern effective from June -2017

Physics

CCP III (Section B)

Statistical Physics, Electromagnetic Theory & Relativity (P-VII)

Credits: 02 (Marks: 50)

Periods: 45

Unit -I: Statistical Basis and Thermodynamics (12 Periods)

Statistical Basis, probability, probability and frequency, permutation and combinations, Micro and Macro states, Thermodynamic probability, Entropy & probability, (Book 1)

Unit S-II: Classical Statistics and Quantum Statistics (12 Periods)

Phase space, Maxwell-Boltzmann Distribution law, Quantum Statistics- Bose- Einstein Distribution law, Fermi- Dirac Distribution law, comparison of M. B., B.E. and F. D. statistics, Application of Quantum statistics to Photon gas and Electron gas. (Book 1 and 4)

UNIT –III: Electromagnetic Theory and Maxwell’s Equations (11 Periods)

Ampere’s Law and Steady State current, Generalization of Ampere’s Law and displacement current, Maxwell’s Equations, Derivation of Maxwell’s Equations, The electromagnetic Energy, and Poynting Vector, The wave Equation. (Books 4,5,6)

Unit IV: Relativity

(10 Periods)

Introduction, frame of reference, Postulates of Special Theory of Relativity, Galilean Transformations, Lorentz Transformations, Length Contraction, Time dilation, Velocity addition, relativity of mass, Mass energy relation.

(Book 7 and 8)

Books Recommended:

1. Heat Thermodynamics and statistical Physics – Brij Lal, Dr. N.Subrahmanyam, P. S. Hemne (Sultan Chand &Company Ltd).
2. Thermodynamics and Statistical Physics- S.L.Kakani(Sultan Chand &Sons)
3. Thermodynamics, Kinetic Theory, and Statistical Thermodynamics – Sears and Salinger, (Narosa Publishing House, New Delhi)
4. Foundatin of Electromagnetic Theory – John R Reitz Frederic J. Milford ,(Narosa Publishing House, New Delhi
5. Classical Electrodynamics- Gupta Singh, Kumar , Pragati Prakashan Meerut.
6. Introduction to Electrodynamics- David J. Griffiths, Prentices Hall, India.
7. Perspectives of Modern physics – Arthur Beiser

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)

B. Sc. Second Year (Semester – IV)
Semester Pattern effective from June -2017

Physics
CCP IV (Section A)
Optics and Lasers (P-VIII)

Credits: 02 (Marks: 50)

Periods: 45

Unit–I: Geometrical Optics

(09 Periods)

Cardinal Points of an Optical System(six points), Coaxial Lens System (equivalent focal length and cardinal points), Huygens Eyepiece, Ramsden Eyepiece and their cardinal points,
(Book 1)

Unit–II: Interference and Diffraction:

(14 Periods)

Newton’s Rings, Determination of wavelength of Sodium light, Michelson Interferometer,
Determination of wavelength of monochromatic light, Difference in wavelength between two neighboring spectral lines.

Diffraction:

Fresnel and Fraunhofer diffraction, Fraunhofer’s diffraction due to single and double slit, Plane diffraction grating, Determination of wavelength of Sodium light, Rayleigh criterion, Resolving power of grating, Resolving power of Prism.
(Book 1)

Unit–III: Polarization

(12 Periods)

Polarization by Reflection, Brewster’s law, Malus law, Double refraction, Nicol prism, Nicol prism as an analyzer, Huygen’s explanation of double Refraction in Uniaxial crystals , Quarter wave plate, Half wave plate, Optical Activity , Specific rotation, Laurent’s half shade polarimeter.
(Books 1 and 2)

Units–IV: Lasers

(10 Periods)

Spontaneous & stimulated emission, absorption, Einstein coefficients (definitions),
Population inversion, Optical & electrical pumping, Properties of lasers, He-Ne laser and diode laser,
(Book 3)

Books Recommended:

1. A Text Book of Optics - Brijlal and Subrahmanyam. (S. Chand & Co.)
2. B.Sc.Physics Volume –I-- C.L.Arora (S.Chand)
3. Lasers and Nonlinear Optics – B.B.Laud (Willey .Eastern limited)
4. Optics and Atomic Physics – D.P. Khandelwal. (Himalaya Publishing House)
5. Optics (Second edition) – A.K.Ghatak
6. Geometrical & Physical optics by D. S. Mathur.

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course Structure (New scheme)

B. Sc. Second Year (Semester – IV)

Semester Pattern effective from June -2017

Physics

CCP IV (Section B)

Basic Electronics (P-IX)

Credits: 02 (Marks: 50)

Periods: 45

Unit I: Regulated Power supply : (10 Periods)

Introduction, ordinary D. C. power supply, Voltage regulation, , Need of regulated power supply, Types of regulators, for low voltage, for high voltage, Zener diode voltage regulator,, Transistor series voltage regulator Series feedback voltage regulator short circuit protection, Transistor shunt voltage regulator, Definition of Line and Load regulation, Problems.

(Book 1, 2)

Unit–II: Bipolar Junction Transistors (BJT): (13Periods)

Transistor Connections: Common base, common emitter, common collector, Characteristics of common base, common emitter, common collector connections, transistor Load line Analysis, Operating point. Hybrid parameters (or h parameters) Determination of h-parameters, Analysis of common emitter amplifier and common using h-parameters (current gain, voltage gain, power gain, input resistance and output resistance) **(Book 1,2,3)**

Unit–III: Operational Amplifier: (12Periods)

Operational Amplifier, Basic circuit of differential amplifier, common Mode and differential mode signals, block diagram of Op-Amp, schematic symbol, ideal Characteristics, input offset voltage; input offset current, input bias current, input impedance, Output impedance, open loop gain, Slew rate, Inverting amplifier. **(Book 2, 6)**

Unit IV: Sinusoidal Oscillators: (10 Periods)

Sinusoidal Oscillator, Types of sinusoidal Oscillators, Oscillatory circuit, Positive feedback Amplifier- Oscillator, Barkhausen Criterion,Hartley oscillator, Colpitt's oscillator, R-C Network, Phase shift oscillator, **(Book 1, 2, 9)**

Books Recommended:

1. Principles of Electronics – V. K. Mehta Rohit Mehta (S.Chand & Co.)
2. Principles of Electronics – V. K. Mehta Rohit Mehta (multicolour Illustrative Edition 2000 and 2013) (S.Chand & Co.)
3. Electronic Principles-Malvino
4. Basic Electronics(Solid State) – B.L.Thereja (S.Chand & Co.)
5. Basic Electronics & Linear Circuits—N.N.Bhargava,D.C.Kulshreshtha(TMh)
6. Op-Amps and Linear Integrated Circuits-Ramakant Gayakwad, (PHI Delhi)
7. Electronic fundamentals and Applications – J. D. Ryder.(TMh publications).
8. Digital & Analogue Techniques—Navneet , Gokhale & Kale (Kitab Mahal)
9. Introduction to Electronics-K.J.M.Rao, (Oxford and IBH Publishing Co.).
10. Solid State Pulse Circuits-David A Bell, Fourth edition, (PHI)
11. Electronics and Radio Engineering-M.L.Gupta, (Dhanpat Rai and sons).
12. Linear Integrated circuits-K.C. Botkar

Swami Ramanand Teerth Marathwada University Nanded
Choice Based Credit System (CBCS) Course Structure (New scheme)

B. Sc. Second Year (Semester – III & IV)
Semester Pattern effective from June -2017

Physics

Practical Paper P-X: *Practical's based on P-VI & P-VIII*
(Annual practicals Based on [CCPIII& IV (Section A & B)])

Credits: 02 (Marks: 50)

Periods : 45

Practicals based on paper -VI

1. Moment of Inertia of a flywheel
2. Kater's pendulum
3. Y by Cantilever (Oscillation method)
4. η by torsional pendulum
5. Y and η by Searle's method
6. Surface tension by Fergusson method
7. Frequency of A.C. by Sonometer
8. Helmholtz's resonator
9. Study of Lissajous figures using CRO

Practicals based on paper-VIII

10. Calibration of Spectrometer
11. Determination of ' μ ' by i - δ curve using spectrometer
12. Determination of λ of Sodium light by Newton's ring
13. Diffraction grating normal incidence
14. Resolving power of Telescope
15. Resolving power of grating
16. Specific rotation by Laurent's half shade polarimeter
17. To Estimation the concentration of sugar in the solution.
18. Wave Length of Laser source by Diffraction Grating
19. To study the Spectral Characteristics of a Photovoltaic
20. To study the Characteristics of solar cell.

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course Structure (New scheme)

B. Sc. Second Year (Semester – III & IV)

Semester Pattern effective from June -2017

Physics

Practical Paper P-XI: *Practical's based on P-VII & P-IX*

(Annual practical Based on [CCPIII & IV (Section A & B)])

Credits: 02 (Marks: 50)

Periods: 45

Practicals based on paper-VII

1. Potentiometer- measurement of Low resistance
2. C_1/C_2 by Proportional kick method
3. C_1/C_2 by Method of Mixture
4. Maximum velocity of electron using photocell
5. To determine the capacitance of a capacitor by discharging it through a sensitive galvanometer.
6. Determination of self inductance by Owen's bridge.
7. To determine resistance of a thermister.
8. Calibration of ammeter using potentiometer.
9. Stefn's Constants

Practicals based on paper-IX

10. To Study the Zener Diode as voltage regulator
11. Photo diode characteristics
12. Transistor characteristics (C-B mode)
13. Transistor characteristics (C-E mode)
14. Characteristics of photo transistor
15. Power supply using π -filter (Full Wave rectifier)
16. Transistorized regulated power supply.
17. Load regulation using bridge rectifier.
18. Study of transistorized CE amplifier (Frequency response, gain & 3db band width.)
19. Op-Amp as adder
20. Op-amp as subtractor.
21. Phase shift oscillator. Measurement of frequency and amplitude of waveforms.

Note: 1. Each student appearing for Annual practical examination must produce a journal showing that he has completed minimum **12** experiments in each practical course during the year.

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course Structure (New scheme)

B. Sc. Second Year (Semester – III)

Semester Pattern effective from June -2017

Physics

CCPSI (Section A)

Skill Enhancement Course SEC I

Credits: 02 (Marks: 50)

Periods: 45

Skill Enhancement Course-I (Credit:2) B. Sc. III SEM

Computational Physics Credit: 02 45 Lectures (Theory + Lab)	Maximum Marks: 50 C. A. (Internal): 25 ESE OR Skill Exam:25
Maintain project file or Dissertation to check Analytic skills/ problem solving in skill exam	

UNIT-I: Algorithms and Flowcharts: Algorithm- definition and development, Flowchart- Concept, Symbols, Algorithm and Flowcharts for roots of quadratic equation, sum of two matrices, sum and product of finite series, calculation of $\sin(x)$ as series. **(10 Lectures)**

UNIT-II: Scientific Programming: Fortran: character set, Constants, Variables, Arithmetic expressions, Library functions, Arithmetic statements, Structure of program, FORMAT specification, READ, WRITE, Terminating a program, programming style, Unformatted I/O statements. **(10 Lectures)**

UNIT-III: Control Statements: Unconditional GOTO, Computed GOTO, Arithmetic IF, Logical if, IF-THEN-ELSE, Nested IF-THEN-ELSE, ELSE-IF-THEN, Rules for DO loops, CONTINUE, Nested Do loops, DATA Statement, Double precision, Logical data, COMPLEX data, String manipulation, WHILE structure, Array declarative statements, Implied Do loops, One & multidimensional array, Function subprograms, Subroutine subprograms, COMMON, EQUIVALENCE, Data file organization, OPEN a file, READ from a file, WRITE in a file, Closing a file, File creation programs, File processing programs. **(10 lectures)**

Hands on Exercises: Write programs for the following and get the results
(15 Lectures)

1. Centigrade to Fahrenheit conversion.
2. Area of a triangle.
3. Velocity and acceleration.
4. Fibonacci Numbers
5. Quadratic equation.
6. Sum of series.
7. Sum of sine series.
8. Greatest common divisor.
9. Matrix addition.
10. Matrix multiplication.

Reference Books:

1. Introduction to Numerical Analysis, S S Sastry, 5th edition, 2012, PHI Learning Pvt. Ltd.
2. Computer programming in Fortran 77, V. Rajaraman, PHI Publisher
3. Computational Physics: An Introduction, R. C. Verma, New Age International Publisher, New Delhi.

OR

Skill Enhancement Course-I (Credit: 02) B. Sc. III SEM

Electrical Measurements Credit: 02 45 Lectures (Theory + Lab)	Maximum Marks: 50 C. A. (Internal): 25 ESE OR Skill Exam:25
Maintain project file or Dissertation to check Analytic skills/ problem solving in skill exam	

UNIT-I: Basic of Measurement: Instruments accuracy, Precision, Sensitivity, Resolution range, Errors in measurements, Loading effect. **(3 Lectures)**

UNIT-II: Multimeter: Principle of measurement of dc voltage and dc current, ac voltage, ac current, Resistance, Specifications of a Multimeter and their significance. **(4 Lectures)**

UNIT-III: Voltmeter: Principles of voltage measurement (block diagram only), Sensitivity, Specifications of an electronic voltmeter and its significance, Ac millivoltmeter, Types of ac millivoltmeter. **(5 Lectures)**

UNIT-IV: Milliammeters: Principle of current measurement, Measurements of dc current, Ac current, Micro ammeters **(5 Lectures)**

UNIT-V: Impedance Bridges: Block diagram of bridge, Working principles of basic (balancing type) RLC bridge, Specifications of RLC bridge. **(6 Lectures)**

UNIT-VI: Digital Instruments: Principle and working of digital meters, Comparison of analogue and digital instruments, Characteristics of digital meter, Working principle of digital voltmeter, Block diagram and working of digital Multimeter. **(7 Lectures)**

Hands on Exercises: (15 Lectures)

1. Measurement of ac and dc voltages by using analogue multimeter.
2. Measurement of resistance using colour code and analogue multimeter.
3. Measurement of ac and dc currents by using multimeter.
4. Measurement of ac and dc voltages by using AC/DC Voltmeters.
5. Measurement of ac and dc currents by using AC/DC Milliammeters.
6. Determination of value of L and C using bridge circuit.
7. Measurement of ac and dc voltages by using digital multimeter.
8. Measurement of resistance using digital multimeter.
9. To study testing of diode and transistor with multimeter.

Reference Books:

1. A Text book in Electrical technology, B L Theraja, S Chand & Co
2. Digital Circuits & Systems, Venugopal, 2011, Tata McGraw Hill
3. Electronic Circuits: Handbook of design and applications, U. Tietze, Ch. Schenk, 2008, Springer
4. Electronic Devices & Circuits, S. Salivahanan & N S Kumar, 3rd edition, 2012, Tata McGraw Hill

Swami Ramanand Teerth Marathwada University Nanded**Choice Based Credit System (CBCS) Course Structure (New scheme)****B. Sc. Second Year (Semester – IV)**

Semester Pattern effective from June -2017

Physics**CCPS II (Section B)*****Skill Enhancement Course SEC II*****Credits: 02 (Marks: 50)****Periods: 45****Skill Enhancement Course-II (Credit: 02) B. Sc. IV SEM**

Applied Optics Credit: 02 45 Lectures (Theory + Lab)	Maximum Marks: 50 C. A. (Internal): 25 ESE OR Skill Exam:25
Maintain project file or Dissertation to check Analytic skills/ problem solving in skill exam	

UNIT-I: Refraction Through Lenses: Types of lenses, The sign convention, principal foci, Deviation produced by a thin lens, Power of a lens, Principal planes and focal planes, Dispersion by prism, Dispersive power, Huygens eyepiece, Ramsden eyepiece.

(10 Lectures)

UNIT-II: Semiconductor Sources and Detectors: Construction of LED, Working principle of LED, Types of LED, Construction of LDR, Working principle of LDR, Construction of photovoltaic cell & its working principle. **Polarization of Light:** Polarization of transverse wave, Plane of polarization, Brewster law, Malus law, specific rotation, Laurent's half shade polarimeter.

(10 Lectures)

UNIT-III: Laser: Lasers, spontaneous and stimulated emission, Theory of laser action, Einstein's coefficients, Light amplification, Characterization of laser beam, He-Ne laser, Semiconductor lasers.

(10 Lectures)**Hands on Exercises: (15 Lectures)**

1. Determination of focal length of a biconvex lens.
2. Determination of radius of curvature of a lens using a spherometer.
3. Determination of power of a lens.
4. Determination of the grating radial spacing of a compact disc (CD) by reflection using a laser source.

5. To find the width of the slit using diffraction pattern obtained by a laser.
6. To find angle of polarization using Brewster law.
7. To study V-I characteristics of LED.
8. Study the characteristics of solid state laser.
9. Study the characteristics of LDR.
10. Study characteristics of a photovoltaic cell.

Reference Books:

1. Fundamentals of optics, F. A. Jenkins & H. E. White, 1981, Tata McGraw Hill.
2. LASERS: Fundamentals & applications, K. Thyagrajan & A. K. Ghatak, 2010, Tata McGraw Hill.
3. A Text Book of Optics, Brij Lal & Subramanyam, 1989, S Chand & Co
4. Laser & Non- linear optics, B. B. Laud, New Age International Publisher

OR

Skill Enhancement Course-II (Credit: 02) B. Sc. IV SEM

Electronic devices and equipments Credit: 02 45 Lectures (Theory + Lab)	Maximum Marks: 50 C. A. (Internal): 25 ESE OR Skill Exam:25
Maintain project file or Dissertation to check Analytic skills/ problem solving in skill exam	

UNIT-I: Basic Electricity Principles: Resistance, Inductance, Capacitor, Colour code, Voltage, Current, Power, Ohm's law, Kirchhoff's law, Junction diode, Transistor
(6 Lectures)

UNIT-II: Understanding Electronic circuits: Ac and Dc sources, Rules to analyse DC sourced electronic circuits, Current and voltage drops across the DC circuit elements, Rectifiers (half wave, full wave & bridge), Voltage regulator using Zener diode.
(6 Lectures)

UNIT-III: Transistor applications: CE amplifier, its analysis and performance, CB amplifier, its analysis and performance, Hartley oscillator, Colpitt oscillator and their performance, Wien bridge oscillator and its performance (6 Lectures)

UNIT-IV: Signal Generators: Block diagram, explanation and specification of low frequency signal generators, Pulse generator, Function generator.
(6 Lectures)

UNIT-V: Cathode Ray Oscilloscope: Block diagram of basic CRO, construction of CRT, electron gun, electrostatic focusing and acceleration (only explanation), Use of CRO for measurement of ac and dc voltages, time period, frequency, special features of dual trace CRO, study of Lissajous figures.
(6 Lectures)

Hands on Exercises: (15 Lectures)

1. Measurement of voltage, time period and frequency using CRO.
2. Measurements of rise and fall time using CRO.
3. To study dual trace CRO.
4. Study of full wave rectifier.
5. Study of Lisajous figures.
6. Study of Zener diode voltage regulator.
7. To study of performance of single stage CE amplifier.
8. Determination of resistance and capacitor values using colour code.
9. To study wave forms generated by a function generator.

Reference Books:

1. A Text Book in Electrical Technology, B. L. Theraja, S Chand & Co.
2. Electronic Circuits: Handbook of design and applications, U. Tietze, Ch. Schenk, 2008, Springer.
3. Electronic devices, 7/e Thomas L. Floyd, 2008, Pearson India.
4. Electronic Devices & Circuits, S. Salivahanan & N S Kumar, 3rd edition, 2012, Tata McGraw Hill

Note: SEC I & II Continuous Assessments (CA) includes test on theory 15 + seminar 10 = 25; 25 Marks for Seminar on SEC or conducting of the practical work on SEC (Annually). SEC is examined by External Examiner at the time of their Practical examination for 25 Marks.

Students can have choice of SEC from any one of their optional subjects: Physics, Mathematics, Chemistry or Physics, Mathematics, Electronics or Physics Mathematics, Computer Science as per their Group. Students can have choice of SEC from other department also and their credits are transferred to parent department.

Submitted by Dr. L. S. Ravangave
Member of Coordination Committee
Swami Ramanand Teerth Marathwada University Nanded.

Dr. B. S. MUNDE
Member of syllabus committee

Prof. M .P. SARWADE
Member of syllabus committee

Paper setting Pattern
B. Sc. II Year for SEM III &IV

All Questions are compulsory

Question NO. 1 Multiple Choice Questions

10 Marks.

- I) .
- II) .
- III) .
- IV) .
- V) .
- VI) .
- VII) .
- VIII) .
- IX) .
- X) .

Question NO. 2 Attempt Any five from following.

10 Marks

- a)
- b).
- C).
- d).
- e)
- f).
- g).

Question NO.3 Attempt any Two of the following

10 Marks

- a).
- b).
- c).
- d).

Question NO. 4 Attempt any one from following

10 Marks

- a)
- b)

Proforma for B. Sc. S. Y. Physics (CBCS Pattern) Practical Examination Marks Distribution

B. Sc. S. Y.		CBCS pattern	
Minimum Practicals completed		12	
		Mark Distribution	
Annual = 40		Total = 40	
Experimental performance	40		
Total Marks	40		

Note: The Continuous Assessment (C. A.) marks of practical papers includes viva voce = 05 marks + Journal (Record Book) = 05 Marks. Total 10 marks and should be submitted along with internal examination marks (C. A.) to the university.

Swami Ramanand Teerth Marathwada University,
Nanded



B. O. S. IN CHEMISTRY
B. SC. THIRD YEAR (CHEMISTRY)
SEMESTER- V & VI
CBCS Course
Effective from JUNE – 2018

Swami Ramanand Teerth Marathwada University, Nanded
Choice Based Credit System (CBCS) Course
Structure Faculty of Science
B. Sc. Third Year Syllabus
Semester Pattern Effective From June 2018
Subject: Chemistry

Semester	Course No	Name of the course	Instruction Hrs/Week	Total Period	CA (Int.)	ESC (Ext.)	Total Marks	Credits
V	DSEC- V (Section A)	Theory Paper-XII Organic+Inorganic Chemistry (P-XII)	03	45	10	40	50	02
	DSEC- V [(Section B) (Elective)]	Theory Paper-XIII Physical+Inorganic Chemistry (P-XIII)-B1 OR (Elective Paper) Physical+Inorganic Chemistry (P-XIII) B2	03	45	10	40	50	02
				03	45	10	40	50
	DSECP- IV [DSEC V & VI (Section A)]	Practical's based on P-XII & P-XIV (P-XVI)	04	Practicals 08 08	05 05	20 20	25 25	01 01
	DSEC- IV (Elective)	Practical's based on (Elective)	02	08	05	20	25	
	DSECP-III SEC III (Any one Skill from optional)	(A) Applied Analytical Chemistry OR (A) Computer Application in Chemistry	02+01=03	45	25	25	50	(02)*
VI	DSEC VI [(Section A) (Elective)]	Theory Paper-XIV Organic+Inorganic Chemistry (P-XIV)-A1 OR (Elective Paper) Organic+Inorganic Chemistry (P-XIV)-A2	03	45	10	40	50	02
			03	45	10	40	50	
	DSEC VI (Section B)	Theory Paper-XV Physical+Inorganic Chemistry (P-XV)	03	45	10	40	50	02
	DSECP- IV [DSEC V & VI (Section B)]	Practical's based on P-XIII & P-XV (P-XVII)	04	Practicals 08 08	05 05	20 20	25 25	01 01
				02	08	05	20	25
	DSEC IV (Elective)	Practical's based on (Elective)	02	08	05	20	25	
	DSEC IV SEC IV (Any one Skill from optional)	(B) Spectroscopic Techniques and Cosmetic Preparation OR (B) Basic Analytical Chemistry	02+01=03	45	25	25	50	(02)*
Total credits semester V and VI							12(04)* = 16	

DESC: Discipline Subject Elective Chemistry, DSECP: Discipline Subject Elective Chemistry Practical, ESE: End of Semester Examination, CA: Continuous Assessment, SECC: Skill Enhancement Course Chemistry. Distribution of Credits: 80% of the total Marks for ESE and 20% for CA.

- CA of Marks 10 : 10 Marks for test. - CA of 25 Marks: 15 Marks for Seminar & 10 Marks for test.

Suggestions: The end examination of Skill Enhancement Course should be conducted on the separate day by calling all the students who have opted Chemistry as SEC.

Section – A (Organic Chemistry)

Unit – I Heterocyclic Compounds

06 Periods

- i) Introduction, classification and nomenclature.
 - ii) Molecular orbital structures, resonance structures and reactivity of furan, pyrrole, thiophene and pyridine.
 - iii) General mechanism of electrophilic substitution reactions of furan, pyrrole, thiophene & pyridine.
- [A] Five-membered heterocycles
- (1) Furan: (Oxole)
- 1.1.1 Synthesis from: a) Mucic acid b) Succinaldehyde
 - 1.1.2 Physical Properties
 - 1.1.3 Chemical Properties:
 - a) Electrophilic Substitution reactions :
 - i) Nitration
 - ii) Sulphonation
 - iii) Halogenation
 - iv) Friedel-Craft's acylation
 - v) Gattermann-Koch reaction
 - vi) Gomberg reaction
 - vii) Reaction with n-butyl lithium
 - b) Reduction
 - c) Diel's-Alder reaction
- (2) Pyrrole : (Azole)
- 1.2.1 Synthesis from: a) Acetylene b) Furan c) Succinimide
 - 1.2.2 Physical properties
 - 1.2.3 Chemical properties:
 - a) Electrophilic substitution reactions:
 - i) Nitration
 - ii) Sulphonation
 - iii) Halogenation
 - iv) Friedel-craft acylation
 - v) Gattermann reaction
 - vi) Reimer-Tiemann reaction
 - vii) Coupling reaction
 - b) Reduction
 - c) Ring expansion reaction
 - d) Acidic character
- (3) Thiophene (Thiole)
- 1.3.1 Synthesis from: a) Acetylene b) n-butane c) Sodium Succinate
 - 1.3.2 Physical properties
 - 1.3.3 Chemical properties:
 - a) Electrophilic substitution reactions: i) Nitration ii) Sulphonation iii) Halogenation
 - iv) Friedel-Craft acylation v) Chloromethylation vi) Mercuration vii) Reaction with n-butyl lithium
 - b) Reduction

Unit – II : [B] Six-membered heterocyclic compounds

04 periods

- (1) Pyridine: (Azine)
- 2.1.1 Synthesis from: a) Acetylene b) β -picoline c) Pentamethylenediamine hydrochloride
 - 2.1.2 Physical properties
 - 2.1.3 Chemical properties:
 - a) Electrophilic Substitution reactions: i) Nitration ii) Sulphonation iii) Bromination
 - b) Nucleophilic Substitution reactions: (General mechanism)
 - i) Amination
 - ii) Reaction with KOH
 - iii) Reaction with n-butyl lithium
 - c) Reduction
 - d) Oxidation
 - e) Basic Character

[C] Condensed heterocyclic compounds:

- (1) Indole : (Benzopyrrole) Synthesis by : a) Fischer's Indole Synthesis b) Bischler's Indole Synthesis
- (2) Quinoline: (Benzopyridine) Synthesis by: a) Skraup Synthesis b) Friedlander Synthesis

Unit – III: Synthetic drugs and dyes

10 Periods

(1) Synthetic drugs:

- 3.1.1 Introduction: qualities of good drug.
- 3.1.2 Classification of drugs based on therapeutic action :-
 - a) Functional drugs : (Antipyretics, Analgesics, Anaesthetics, Antidiabetics, Anti-inflammatory, sedatives, hypnotics, tranquillizers)
 - b) Chemotherapeutic agents : (Antimalarials, Antibacterials, Antifungals, Antituberculars,
- 3.1.3 Synthesis and uses of the following drugs:
 - a) Paludrine b) Paracetamol c) Sulphanilamide d) Aspirin
 - e) Benzocaine f) Isoniazide g) Sulphadiazine h) Tolbutamide

(2) Synthetic dyes:

- 3.2.1 Introduction, qualities of good dye
- 3.2.2 Classification of dyes based on methods of applications
- 3.2.3 Colour and chemical constitution: a) Witt's theory b) Armstrong's theory
- 3.2.4 Synthesis and uses of the following dyes:
 - a) Alizarin d) Methylorange
 - b) Diamond black-F e) Congo-Red
 - c) Indigo f) Orange – II

Unit – IV: Alkaloids, Vitamins and Pesticides

10 Periods

(1) Alkaloids:

- 4.1.1 Introduction, occurrence and extraction.
- 4.1.2 Classification and general properties.
- 4.1.3 Determination of chemical constitution of alkaloids.
- 4.1.4 Constitution of the following alkaloids.
 - a) Ephedrine : (Synthesis from : 1-Phenyl propane-1, 2-dione)
 - b) Nicotine : (Synthesis from : Nicotinonitrile)

(2) Vitamins :

- 4.2.1 Introduction and classification.
- 4.2.2 Source, structure and deficiency diseases of the following vitamins :
 - a) Vitamin – A, D, E and K
 - b) Vitamin – B₁, B₂, B₃, B₆, B₁₂ and C

(3) Pesticides :

- 4.3.1 Introduction and classification :
(Insecticides, Herbicides, Fungicides and Rodenticides)
- 4.3.2 Synthesis and uses of the following pesticides :
 - a) DDT b) BHC c) 2, 4 – D d) Methoxychlor e) Carbaryl d) Monochrotophos

Section – B (Inorganic Chemistry)

Unit-V: Coordination Chemistry (Part-I)

10 Periods

- 5.1.1 Introduction: addition or molecular compound, double salt, coordination compound. Comparison of double salt and coordination compound.
- 5.1.2 Terminology: complex ion, central metal atom, ligand, types of ligands, coordination number and coordination sphere.
- 5.1.3 Nomenclature: Rules of nomenclature of coordination compounds, and its applications to nomenclature of simple and bridging complex compounds.
- 5.1.4 Werner's theory of coordination compound, postulates, applications with reference to $\text{CoCl}_3 \cdot 6\text{NH}_3$, $\text{CoCl}_3 \cdot 5\text{NH}_3$, $\text{CoCl}_3 \cdot 4\text{NH}_3$, $\text{CoCl}_3 \cdot 3\text{NH}_3$.
- 5.1.5 Chelating agents and its classification, difference between metal complex and metal chelate complex.
- 5.1.6 Isomerism: structural isomerism, ionization, hydrate, linkage, coordination isomerism, geometrical isomerism, optical isomerism in 4 and 6 coordination complex.
- 5.1.7 E. A. N. of metal complexes.

Unit-VI: The Chemistry of Elements in Medicine

05 Periods

- 5.2.1 Introduction
- 5.2.2 Chelation Therapy
- 5.2.3 Cancer Treatment
- 5.2.4 Anti-arthritis drugs.
- 5.2.5 Imaging agents.

Reference Books:

- 1) Organic chemistry by S.M.Mukherji, S.P.Singh, R.P.Kapoor (Vol. II & III)
- 2) Organic Chemistry by Jagdamba Singh, L.D.S.Yadav (Vol. II & III)
- 3) A text book of organic chemistry by P.L.Soni, H.M.Chawla
- 4) A text book of organic chemistry by K.S.Tewari, S.N.Mehrotra, N.K.Vishnoi
- 5) A text book of organic chemistry by ArunBahl and B.S.Bahl
- 6) Principles of organic chemistry by M.K.Jain
- 7) Heterocyclic chemistry synthesis, reactions and mechanism by Raj K. Bansal
- 8) Reaction mechanism and reagents in organic chemistry by G.R.Chatwal
- 9) Synthetic organic chemistry by G.R.Chatwal
- 10) Natural products by O.P.Agarwal (Vol. I & II)
- 11) Spectroscopy of organic compounds by P.S.Kalsi
- 12) Elementary organic absorption spectroscopy by Y.R.Sharma
- 13) Absorption spectroscopy of organic molecules by V.M.Parikh
- 14) Chemistry of pesticides by K.H.Buchel (T.W.)
- 15) Polymer Science by V.R.Gowarikar, N.V.Viswanathan and JayadevSreedhar
- 16) Medical Chemistry by Burger
- 17) Organic Chemistry by Clayden, Greeves, Warren and Wothers
- 18) Reactions, Rearrangements and reagents by S.N.Sanyal
- 19) Synthetic organic chemistry by KamleshBansal
- 20) A text book of synthetic drugs by O.D.Tyagi, M.Yadav
- 21) Synthetic drugs by G.R.Chatwal
- 22) Synthetic dyes by G.R.Chatwal
- 23) Industrial Chemistry by B.K.Sharma
- 24) Organic Chemistry by Morrison and Boyd
- 25) Organic Chemistry by Carey
- 26) Organic Chemistry by L.G.Wade
- 27) Inorganic chemistry (5th edition) by Shriver Atkins
- 28) Organic Chemistry by Cram D.J. and Hammond G.S.
- 29) Organic Chemistry by I.L.Finar
- 30) Advanced Organic Chemistry by Jerry March
- 31) Organic Chemistry by Fieser and Fieser
- 32) Principles of Inorganic Chemistry by Puri, Sharma and Kalia.
- 33) Inorganic Chemistry by Gurudeep Raj, Chatwal.
- 34) Advanced Inorganic Chemistry Vol. II by Satyaprakash, Tuli, Basu and Madan.
- 35) Inorganic Chemistry by huheey, Keiter and Keiter.
- 36) Concise Inorganic Chemistry by J.D. Lee.

Objective(s)	To acquire basic knowledge about Heterocyclic Compounds, Synthetic Drugs and Dyes, Alkaloids, Vitamins, Pesticides, Co-ordination Chemistry and the chemistry of elements in Medicine.
Course Outcome(s)	
CO1	Learn the mechanism of Electrophilic Substitution reaction of Heterocyclic Compounds
CO2	Know the characteristics, Classification and synthesis of Drugs and Dyes
CO3	Explaining theories of Color and chemical constitution of Dyes
CO4	Gathering basic knowledge of Alkaloids, Vitamins and Pesticides
CO5	Understand the basic principle and application of coordination complexes
CO6	Know the application of elements in Medicine

B. Sc. Third Year: Semester-V
Paper-XIII, (DSEC-V, Section B)
(B1)
Physical & Inorganic Chemistry

Marks – 50

Periods – 45

Section – A (Physical Chemistry)

Unit –I

1.1.1. Spectroscopy-I : 09 Periods

- a) Brief introduction to molecular Spectroscopy. Width and intensity of spectral lines. Factors affecting width and intensity of spectral line.
- b) Rotational spectra :
Classification of molecules, Rotational spectra of diatomic molecules.(Rigid rotator model)
Moment of inertia, energy levels of rigid rotator, selection rule, spacing between spectral lines of diatomic rigid rotator, isotopic effect. Numerical.
- c) Vibrational Spectra:
Infrared spectrum, simple harmonic oscillator model, energy levels of simple harmonic oscillator, selection rule, pure vibrational spectrum, intensity, determination of force constant, qualitative relation between force constant and bond energies. Numerical on force constant.

Unit –II

1.1.2. Spectroscopy-I I: 05 Periods

- a) Raman spectra :
Raman effect, Concept of polarizability, classical and quantum theory of Raman scattering, rotational Raman spectrum of a diatomic molecule. Experimental Raman Spectroscopy.
- b) Electronic spectra :
Concept of potential energy curve, Franck-Condon Principle, Types of electronic transitions.

Unit III

1.1.3. Chemical Kinetics: 08 Periods

- a) Introduction, Third order reaction with equal concentration of all reactants, characteristics of third order reaction.
- b) Kinetics of complex reaction : i) Opposing reaction ii) Consecutive reaction
- c) Kinetics of Photochemical reaction : i) Hydrogen –chlorine reaction ii) Decomposition of HI iii) Dimerization of anthracene.

Unit IV

1.1.4. Distribution Law: 08 Periods

- a) Introduction, Nernst Distribution law, Solubility and distribution law, Limitations of law.
- b) Association and dissociation of solute in solvent.
- c) Henry's law.
- d) Determination of equilibrium constant from distribution coefficient.
- e) Extraction of solvent.
- f) Liquid -liquid chromatography.
- g) Applications of distribution law.
- h) Numerical on distribution law

Section B (Inorganic Chemistry)

Unit V:

09 Periods

1.1.5 Organometallic compounds

- a) Definition
- b) Nomenclature and classification of organometallic compounds
- c) Preparation, properties, bonding and application of alkyl and aryls of Li, Al, Sn, Ti.

Unit VI:

1.1.6 Metal carbonyls

06 Periods

- a. Definition, types 1) Mononuclear carbonyl, characteristics and examples;
2) Polynuclear carbonyl, characteristics and examples.
- b. Preparation properties and structure of nickel tetra carbonyl.
- c. Nature of metal carbon bond in metal carbonyl and their evidences.
- d. Structure of $\text{Fe}_2(\text{CO})_9$, $\text{Fe}_3(\text{CO})_{12}$, $\text{Ir}_4(\text{CO})_{12}$, $\text{Co}_2(\text{CO})_8$.

Reference Books:

1. Physical Chemistry by G. M. Barrow (Tata Mc-Graw Hill publishing Co., Ltd.)
2. Elements of Physical Chemistry by S. Glasstone & D. Lewis (D.vannostrand co. inc.)
3. Physical Chemistry by W. J. Moore (Orient Longman).
4. Principles of Physical Chemistry by S. H. Maron and C. F. Prutton.
5. University General Chemistry by C. N. R. Rao (Mc-Millan).
6. Elements of Physical Chemistry by P. W. Atkins. (Oxford University Press).
7. Physical Chemistry by R. A. Alberty (Wiley Eastern Ltd.).
8. Physical Chemistry through problems by S. K. Dogra, D. Dogra (Wiley Eastern Ltd)
9. Principles of Physical Chemistry by Puri, Sharma and Pathania (Vishal Publication Jalandher, Delhi)
10. Physical Chemistry by A. J. Mee. ELBS & Heinemann Educational Books Ltd.
11. Essentials of Physical Chemistry by ArunBhal, B. S. Bahl and G. D. Tuli. (S. Chand)
12. Chemical Kinetics by K. J. Laidler (Tata Mc-Graw Hill Publishing Co. Ltd).
13. Text Book of Physical Chemistry by Soni-Dharmarha.
14. A Text Book Physical Chemistry by S. Glasstone, (Mac Millan.)
15. Advanced Physical Chemistry by D.N.Bajpai. (S.Chand)
16. Advanced Physical Chemistry by Gurdeep Raj. (Goel publishing house, Meerut).
17. Principles of Inorganic Chemistry by Puri, Sharma and Kalia.
18. Inorganic Chemistry by Gurudeep Raj, Chatwal.
19. Advanced Inorganic Chemistry Vol. II by Satyaprakash, Tuli, Basu and Madan.
20. Inorganic Chemistry by huheey, Keiter and Keiter.
21. Inorganic Chemistry by J.D. Lee.
22. Instrumental methods of chemical analysis-Chatwal Anand
23. Instrumental methods of chemical analysis-B. K. Sharma.

Objective(s)	To enable the students to acquire basic knowledge in Spectroscopy, Chemical Kinetics, Distribution law, Organometallic Compunds and Metal Carbonyls.
Course Outcome(s)	
CO1	Understand the concepts of molecular Spectroscopy and its applications
CO2	Analyze Rotational, Vibrational and Raman, Spectra
CO3	Interpret the theoretical and experimental methods of chemical kinetics
CO4	Know the theory and application of Distribution law
CO5	Explain the Nomenclature, classification and application of Organometallic Compounds
CO6	Illustrate the classification and application of Metal Carbonyls

Elective paper (Semester-Vth)
Paper No. : P-XIII
DSEC-V (Section-B)
(B2)
Physical + Inorganic Chemistry

Periods: 45

Mark: 50

Unit I: <u>SOLUTIONS OF NON ELECTROLYTES-I</u>	07 Periods
1.1. Solutions of liquids in liquids-(only binary liquids)	
1.2. Raoult's law.	
1.3. Vapour pressure of ideal solutions.	
1.4. Total vapour pressure in terms of mole fraction.	
1.5. Activity of a component in an ideal solutions.	
1.6. Chemical potential of an ideal and non ideal solution.	
Unit II: <u>SOLUTIONS OF NON ELECTROLYTES-II</u>	07 Periods
1.1 Gibb's Duhem-Margules equation and ideal solution.	
1.2 Temperature dependence of vapour pressure of solution.	
1.3 Thermodynamics of ideal solution.	
1.4 Free energy change of mixing, enthalpy change of mixing, entropy change of mixing, Volume change of mixing.	
Unit III: <u>COLLIGATIVE PROPERTIES :</u>	06 Periods
1.1 Osmotic pressure	
1.2 Relative lowering of vapor pressure	
1.3 Elevation in boiling point.	
1.4 Depression in freezing points and relation of these properties with molecular weight.	
1.5 Numericals on depression in freezing point and Elevation in boiling point.	
Unit IV: <u>POLAROGRAPHY:</u>	10 Periods
1.1 Principle and theory of polarography.	
1.2 Ilkovic equation and its significance	
1.3 Half wave potential and its determination.	
1.4 Construction and working of dropping mercury electrode.	
1.5 Advantages and disadvantages and DME.	
1.6 Applications of polarography : Estimation of organic and inorganic substances, analysis of mixture of compounds, determination of diffusion coefficient, determination of stability constant of metal – ion complex.	
Section B (Inorganic Chemistry)	
Unit IV: <u>Isopoly and Hetéopoly acids and anions.</u>	10 Periods
1.1 Introduction.	
1.2 Polymerisation of CrO_4^{-2} . Anion.	
1.3 Isopoly anions and isopoly acids of Mo_6^+ and W_6^+	
1.4 Hetéopoly anions and Hetéopoly acids.	
1.5 1:12(Tetrahedral Heteroatom) Polyanions.	
1.6 2:18(Tetrahedral Heteroatom) Polyanions.	
1.7 1:6 (Octahedral Heteroatom) Polyanions.	
1.8 1:12(Icosahedral Heteroatom) Polyanions Important Reaction of Isopoly anions and Heteropolyanions.	
Unit V: <u>Concept of Isolobality and Isolobality analogies.</u>	05 Periods
1.1 Introduction.	
1.2 Isolobality organometallic fragments and main group fragments.	
1.3 The Isolobality fragments, upon polymerization.	
1.4 The structure of $\text{Ir}(\text{CO})_{12}$ and P_4 fragments.	
1.5 The structure of $\text{Os}(\text{CO})_4$ and CH_2 fragments	

Reference Books:

- 1) Principles of physical chemistry –Puri ,Sharma, pathania (VPC) 45th Edition.
- 2) Elements of physical chemistry –P.W.Atkins(oxford University Press)
- 3) Text book of physical chemistry –Soni, Darmaaha
- 4) Advanced physical chemistry –Gurudeep Raj (Goel Publishing House)
- 5) Instrumental methods of chemical analysis – Chatwal Anand
- 6) Instrumental methods of chemical analysis – B.K.Sharma.
- 7) Principles of Inorganic Chemistry. Puri,sharma and Kalia.

Objective(s)	Creating awareness among students about the importance of Solution of Non Electrolytes, Colligative Properties, Polarography, Isopoly and Heteropoly acids and Anions, Concept of Isolobality and Isolobality analogies is the prime aim of the course.
Course Outcome(s)	
CO1	Know the importance of Solutions of Non Electrolytes
CO2	Understand the basic principle of Colligative properties
CO3	Study the theory and application of Polarography
CO4	Analyze the application of Isopoly and Heteropoly acids and anions
CO5	Introduction and application of Isolobality and Isolobality analogies

Practical paper (Semester- Vth & VIth)
DSECP-IV
DSEC V & VIth (Section-A)
Organic + Inorganic Chemistry
Paper No. : P-XVI

Periods – 120

Laboratory Course – IV (CH-305)

Mark 50

Note : At least Sixteen experiments to be completed : (Twelve from Section A and four from Section B)

Section – A (Organic Chemistry)

01. Organic qualitative analysis: (Seven mixtures)

Separation of organic binary mixture containing two solid components (Using NaHCO₃, NaOH and HCl) and analysis of (both/one) components with preparation one derivative of each.

At least one mixture from each of the following types should be given:

- | | |
|---------------------|-------------------|
| a) Acid + Phenol | b) Acid + Base |
| c) Acid + Neutral | d) Phenol + Base |
| e) Phenol + Neutral | f) Base + Neutral |
| g) Neutral+Neutral | |

Following compounds should be used for preparation of mixtures:

A] Acids : Salicylic acid, Phenyl acetic acid, o-Chlorobenzoic acid, Succinic acid, phthalic acid, cinnamic acid, Benzoic acid and m-cholorobenzoic acid.

B] Phenols : α -naphthol, β -naphthol, resorcinol, p-nitro phenol, m-nitro phenol and hydroquinone, C]

Bases : o-nitroaniline, m-nitroaniline, p-nitroaniline, p-anisidine, diphenylamine, p-toluidine and p-chloroaniline

D] Neutrals : Acetanilide, Anthracene, Benzamide, Benzophenone, Biphenyl, Naphthalene, m-Dinitrobenzene, p-Dichloro benzene and Thiourea.

02. Organic Preparation : (Any five)

[Weight of crude product, crude % yield, recrystallisation of crude product and its melting point expected]

a) Acetylation : Preparation of Aspirin from salicylic acid

OR

Preparation of β -naphthyl acetate from β -naphthol

b) Electrophilic substitution :

Preparation of p-nitroacetanilide from acetanilide (Nitration)

Preparation of 2, 4, 6 – Tribromoaniline from aniline (Bromination)

OR

Preparation of p-bromo acetanilide from acetanilide (Bromination)

c) Diazotisation : Preparation of Methylorange from sulphanilic acid (Coupling)

OR

e) Osazone formation : Preparation of Glucosazone from Glucose

f) Amide Formation : Preparation of Benzamide from benzoic acid

g) Hydrolysis : Preparation of p-nitroaniline from p-nitroacetanilide

h) Reduction : Preparation of m-nitroaniline from m-Dinitrobenzene

i) Oxidation : Preparation of Benzoic acid from Toluene

j) Polymerisation : Preparation of phenol formaldehyde resin

3. Only demonstrations :

a) Extraction of clove oil from crushed cloves by steam distillation.

b) Separation of a mixture of methyl orange and methylene blue by column chromatography

c) Separation of a mixture of amino acids by ascending paper chromatography.

d) Separation of various pigments in the extract of spinach leaves by TLC.

Section – B (Inorganic Chemistry)

1. Gravimetric estimation of Iron as Fe_2O_3 .
2. Gravimetric estimation of Ba as BaSO_4
3. Gravimetric estimation of Nickel as $\text{Ni}(\text{DMG})_2$.
4. Gravimetric estimation of Aluminium as $\text{Al}(\text{Oxinate})_3$.
5. Gravimetric estimation of zinc as ZnO
6. Gravimetric estimation of Chloride as AgCl

Swami Ramanand Teerth Marathwada University Nanded
B.Sc. III Chemistry Practical Paper (Elective)
Practical
Physical + Inorganic Chemistry (XVII)

Section A : Physical Chemistry

Marks 50

(Instrumental & Non Instrumental any 12)

- 1) To study the variation of Viscosity of Liquid Nitrobenzene with temperature.
- 2) To study the effect of surfactant on surface of water by using Stalagnometer.
- 3) Determination of solubility of an inorganic salt in water at different temperature and hence determine the solubility curve.
- 4) Determination of partition coefficient of iodine between water and CCl_4 .
- 5) To investigate the absorption of acetic acid from aqueous solution by activated Charcoal and examine the validity of Freundlich and Langmuir's isotherm.
- 6) Investigate the reaction kinetics between potassium persulphate and potassium iodide by Colorimetric measurement.
- 7) Determine the relative strength of given two acids by polarimetric measurement.
- 8) Determine the half wave potential of metal ion by polarography.
- 9) To estimate the amount of Cd^{++} ion in an unknown solution by polarography.
- 10) To plot the current voltage curve for 0.05 M sulphuric acid using platinum electrode
- 11) To study the polarographic waves produced by dissolved oxygen.
- 12) Determination of formula and stability constant of metal ion complex by polarography.
- 13) Determine the acid and basic dissociation constant of amino acid and hence determine isoelectric point of acid conductometrically.
- 14) To determine the solubility of sparingly soluble salt at different temperature.

Section A : Inorganic Chemistry
Separation and estimation of any one metal ion from binary mixture. (any 04)

1. Ni^{++} and Cu^{++}
2. Cu^{++} and Fe^{++}
3. Ba^{++} and Mg^{++}
4. Fe^{++} and Zn^{++}
05. Cu^{++} and Ba^{++}

SEC III
DSEC-III
DSEC Vth & VIth (Section-A)
Skill Enhancement Course (A)

Periods – 45

02 Credits

Computer Application in Chemistry

1. Use of Softwares: 15 Periods
ISIS draw, Chem draw and Chem sketch.
For drawing the structures, elemental (CHN) analysis, determination of molecular mass, IUPAC name and prediction of spectral data NMR and MASS.
2. Biological activity and Toxicity evaluation of organic compounds using software: 15 Periods
Evaluation of toxicity risk assessment of organic compounds using online software.
Prediction of different biological activities using online software.
3. Use of Excel in Chemistry: 15 Periods
 - a) Functions and formulas : Sum, mean, average, power etc. Understanding formulas, the cell and the formula bar, the formula in action, copying formulas, copying and pasting a formula and complex formula.
 - b) Excel chart and data analysis:
Visual representation of the data through excel graph, plotting and X-Y data set, create calibration curve, format the view graph, add trendline, equation of line and R-square value, determine the slope of a line, scale adjustment, examples, renaming the chart and worksheet, common charting errors, add a chart title. Add regressions and equation to graph, regression analysis, run the regression and interpreting regression results.

OR

APPLIED ANALYTICAL CHEMISTRY

- Unit-I Introduction to Quality Assurance and Quality Control: 15 Periods
- 1.1 Definitions of the terms: Quality policy, Quality Management, Quality system, Quality Control, Quality Assurance and Quality.
 - 1.2 Validation of the Method: Validation of instrument, Validation of analytical method.
- Unit – II Analysis of Soil: 10 Periods
- Methods of soil sampling, Determination of: i) Bulk density (ii) Specific gravity
(iii) Water holding capacity (iv) Moisture content (v) Loss on ignition
(vi) Soil pH.
- Chemical Analysis of Soil: Determination of i) Total nitrogen (ii) Nitrate Nitrogen
(iii) Organic matter.
- Determination of potassium and sodium.
- Unit – III Analysis of fuels: 10 Periods
- Definition and classification of fuels, solid fuels, liquid fuels and gaseous fuels. Calorific value of fuels, Gross and Net calorific value, Determination of calorific value by Bomb Calorimeter.
- Unit – IV 10 Periods
1. Analysis of soil:
 - (i) Determination of pH of soil.
 - (ii) Total soluble salt
 - (iii) Estimation of calcium, magnesium, phosphate, nitrate

Reference Books:

1. An introduction to analytical chemistry, S. A. Iqbal, M. Satake, Y. Mido and M. S. Shethi.
2. College analytical chemistry: Joshi, Baliga and Shetty, Himalaya Publishing house.

3. Qualitative analysis: Day and Underwood.
4. Qualitative inorganic analysis: A. I. Vogel.
5. Principles of analytical chemistry: Pandit and Soman.
6. Analytical chemistry, G. D. Christian, J. Wiley eastern press Ltd.
7. Analytical chemistry: Alka Gupta.
8. Basic concepts of analytical chemistry: S. M. Khopkar.
9. Advanced practical organic chemistry: Vishnoi.
10. list of websites for software and book for UG/PG syllabus:
 - 1) <http://www.acdlabs.com/resources/freeware/chemsketch/>

III) Excel for Chemistry Excel in analytical chemistry by Robert de Levie – Book

<http://chemed.chem.purdue.edu/genchem/lab/datareports/excel/excel.html>

Objective(s)	To train the students for the use of Software, Excel ,analysis of Soil and Fuel
Course Outcome(s)	
CO1	Able to know the use of software and Excel in Chemistry
CO2	Grasp the concept of Quality Assurance and Quality Control
CO3	Illustrate the Physical and Chemical analysis of Soil and fuel
CO4	Be able to evaluate Biological activity and toxicity of organic compounds using softwares

B. Sc. Third Year: Semester-VI
(DSEC-VI, Section A)
(A1)
Organic & Inorganic Chemistry
Paper-XIV

Marks – 50

Periods – 45

Section – A (Organic Chemistry)

Unit – I Spectroscopic Methods:

08 Periods

- i) Introduction, Electromagnetic radiations; Characteristics of EMR :- a) Wave length b) Wave number
c) Frequency d) Energy of EMR
ii) Electromagnetic spectrum; Meaning of Spectroscopy, types of Spectroscopy and advantages
of Spectroscopic methods.
- (A) U. V. Spectroscopy:
- 1.1.1 Introduction.
 - 1.1.2 Absorption of U.V. radiations : Beer-Lambert Law and Molar Absorption.
 - 1.1.3 Types of Electronic Transitions.
 - 1.1.4 Terms used in U.V. Spectroscopy : Chromophore, Auxochrome, Bathochromic.
Shift, Hypsochromic Shift, Hypochromic and Hyperchromic effects.
 - 1.1.5 Effect of conjugation on position of U.V. and Visible bands.
 - 1.1.6 Calculation of λ_{max} by Woodward – Fieser rules for conjugated dienes and enones.
 - 1.1.7 Spectral problems based on U.V.
- (B) I.R. Spectroscopy:
- 1.2.1 Introduction
 - 1.2.2 Principle of IR Spectroscopy.
 - 1.2.3 Fundamental Modes and types of Vibrations. Hooke's Law.
 - 1.2.4 Conditions for absorption of IR-radiations.
 - 1.2.5 IR Spectrum : Functional group region and Fingerprint region.
 - 1.2.6 Characteristic absorption of various functional groups.
 - 1.2.7 Interpretation of IR spectra of following organic compounds :
- | | | | | | |
|--------------------|-----------------|-------------------|-----------------|------------------|---------------|
| a) Ethane | b) Ethene | c) Ethyne | d) Benzene | e) 1-propanol | f) 2-propanol |
| g) t-butyl alcohol | h) Phenol | i) Acetone | j) Acetophenone | k) Acetaldehyde | |
| l) Benzaldehyde | m) Benzoic acid | n) Methylbenzoate | | o) Phenylcyanide | |

Unit – II:

- (A) NMR – Spectroscopy: 08 Periods
- 2.1 Introduction
 - 2.2 Principle of NMR Spectroscopy
 - 2.3 Magnetic and non-magnetic nuclei
 - 2.4 PMR-Spectroscopy :- Spinning nuclei, magnetic moment and magnetic field, precessional
motion, energy states for proton in magnetic field (Orientations) and nuclear resonance.
 - 2.5 Equivalent and non-equivalent protons
 - 2.6 Number of absorption signals in the following compounds :
 - a) Acetone
 - b) Cyclobutane
 - c) Methanol
 - d) Ethylbenzene
 - e) Ethylamine
 - f) Mesitylene
 - g) Diethylether
 - 2.7 Shielding and deshielding effects : (Example of Acetylene and Benzene)
 - 2.8 Chemical shift, measurement of chemical shift by delta scale and tau scale
 - 2.9 TMS as reference, Advantages of TMS.
 - 2.10 Peak area (integration) & spin-spin Splitting (n+1) rule
 - 2.11 Definition of coupling constant : (J-values) of first order coupling
 - 2.12 Interpretation of PMR Spectra of following compounds :
 - a) Ethyl bromide
 - b) Ethyl alcohol
 - c) Acetaldehyde
 - d) 1,1,2-tribromo ethane
 - e) Ethyl acetate
 - f) Toluene
 - g) Acetophenone
 - h) Ethylamine
 - i) Acetic acid
 - j) Benzoic acid

(B) Problems pertaining to the structure elucidation of simple organic compounds using PMR- Spectroscopic data (Supporting IR and UV data to be given) 04 Periods

ORGANIC COMPOUNDS :

- | | | | |
|---------------------|------------------------|------------------------|-----------------------|
| a) n-propyl alcohol | b) Iso-Propyl alcohol | c) ter.butyl alcohol | d) Acetic acid |
| e) Ethylamine | f) Ethyl cyanide | g) Ethyl methyl ketone | h) Ethyl acetate |
| i) Ethyl benzene | j) Phenyl acetaldehyde | k) Phenol | l) Ethyl methyl ether |
| m) Ethylene glycol | n) Propionamide | o) Propionaldehyde | |

Unit – III: Amino acids and Peptides 06 Periods

(A) Amino Acids:

- 3.1.1 Introduction & classification (acidic, basic and neutral).
- 3.1.2 Dipolar nature of amino acids : Zwitter ion, iso electric point.
- 3.1.3 Methods of Preparation of α -amino acids :
 - a) From α -halo acids
 - b) By Gabriel's Phthalimide Synthesis
 - c) By Strecker's Synthesis
- 3.1.4 Chemical Properties of α -amino acids :
 - a) Reactions due to $-\text{NH}_2$ group
 - b) Reactions due to $-\text{COOH}$ group
 - c) Reactions due to both $-\text{NH}_2$ and $-\text{COOH}$ groups
- 3.1.5 Reagents used for identification of amino acids

(B) Peptides:

- 3.2.1 Introduction, classification and nomenclature
- 3.2.2 N-terminus and c-terminus protecting agents
- 3.2.3 Synthesis of peptides from amino acids : (di- & tri-)
 - a) By protecting $-\text{NH}_2$ group (Using carbobenzoxy chloride)
 - b) By protecting $-\text{COOH}$ group (Using benzyl alcohol)
- 3.2.4 Use of DCC (Dicyclohexyl Carbodiimide) as reagent for peptide bond formation

Unit – IV: Molecular Rearrangements 04 Periods 4.2.1 Introduction, classification of rearrangements: On the basis of migratory group (a) Electrophilic rearrangement (ex. Pinacole – Pinacolone rearrangement)

- (b) Nucleophilic rearrangement (ex. Favroskii rearrangement)
- (c) Free Radical rearrangement (ex. PhotoFries rearrangement)
- (d) Aromatic rearrangement (ex Stevens rearrangement)

Section – B (Inorganic Chemistry)

Unit-V: Coordination theory (Part-II) 10 Periods

- 5.1.1) Valence bond theory of coordination compounds: Postulates, inner orbital and outer orbital complexes of coordination number 4 and 6. Limitations of VBT.
- 5.1.2) Crystal field theory: Shape of d-orbital's, postulates, splitting of d-orbital in octahedral complexes, tetrahedral complexes, tetragonal and square planar complex. Definition of CFSE, calculations of CFSE for octahedral and tetrahedral complexes.
- 5.1.3) Factors affecting $10 Dq$ or magnitude of crystal field splitting : Nature of ligand, oxidation state of metal ion, size of d orbital, geometry of complexes.
- 5.1.4) Applications of CFT.
- 5.1.5) John teller effect in octahedral complexes of Cu^{++} .
- 5.1.6) Limitations of CFT.

Unit- VI: Electronic Spectra of Transition Metal complexes: 05 Periods

- 5.2.1) Types of electronic transition
- 5.2.2) Selection rule for d-d transition
- 5.2.3) Spectroscopic ground state and spectro-chemical series
- 5.2.4) Orgel energy level diagram for d^1 and d^9 states
- 5.2.5) Discussion of electronic spectrum of $[\text{Ti}(\text{H}_2\text{O})_6]^{3+}$ complex ion

Reference Books:

- 1) Organic chemistry by S.M.Mukherji, S.P.Singh, R.P.Kapoor (Vol. II & III)

- 2) Organic Chemistry by Jagdamba Singh, L.D.S.Yadav (Vol. II & III)
- 3) A text book of organic chemistry by P.L.Soni, H.M.Chawla
- 4) A text book of organic chemistry by K.S.Tewari, S.N.Mehrotra, N.K. Vishnoi
- 5) A text book of organic chemistry by Arun Bahl and B.S.Bahl
- 6) Principles of organic chemistry by M.K.Jain
- 7) Heterocyclic chemistry synthesis, reactions and mechanism by Raj K. Bansal
- 8) Reaction mechanism and reagents in organic chemistry by G.R.Chatwal
- 9) Synthetic organic chemistry by G.R.Chatwal
- 10) Natural products by O.P.Agarwal (Vol. I & II)
- 11) Spectroscopy of organic compounds by P.S.Kalsi
- 12) Elementary organic absorption spectroscopy by Y.R.Sharma
- 13) Absorption spectroscopy of organic molecules by V.M.Parikh
- 14) Chemistry of pesticides by K.H.Buchel (T.W.)
- 15) Polymer Science by V.R.Gowariker, N.V.Viswanathan and Jayadev Sreedhar
- 16) Medical Chemistry by Burger
- 17) Organic Chemistry by Clayden, Greeves, Warren and Wothers
- 18) Reactions, Rearrangements and reagents by S.N.Sanyal
- 19) Synthetic organic chemistry by Kamlesh Bansal
- 20) A text book of synthetic drugs by O.D.Tyagi, M.Yadav
- 21) Synthetic drugs by G.R.Chatwal
- 22) Synthetic dyes by G.R.Chatwal
- 23) Industrial Chemistry by B.K.Sharma
- 24) Organic Chemistry by Morrison and Boyd
- 25) Organic Chemistry by Carey
- 26) Organic Chemistry by L.G.Wade
- 27) Organic Chemistry by Cram D.J. and Hammond G.S.
- 28) Organic Chemistry by I.L.Finar
- 29) Advanced Organic Chemistry by Jerry March
- 30) Organic Chemistry by Fieser and Fieser
- 31) Principles of Inorganic Chemistry by Puri, Sharma and Kalia.
- 32) Inorganic Chemistry by Gurudeep Raj, Chatwal.
- 33) Advanced Inorganic Chemistry Vol. II by Satyaprakash, Tuli, Basu and Madan.
- 34) Inorganic Chemistry by huheey, Keiter and Keiter.
- 35) Concise Inorganic Chemistry by J.D. Lee.

Objective(s)	To familiarize the students with the concept and principle of Spectroscopy, Amino Acids , Peptides, Molecular Rearrangements, Co-ordination theory and Electronic Spectra of transition Metal Complexes
Course Outcome(s)	
CO1	To learn the basic principle and terms used in UV, IR & NMR Spectroscopy
CO2	Acquire the fundamental knowledge of classification and Synthesis of Amino Acid and Peptides
CO3	Describe the types of Rearrangement
CO4	Postulates and limitations of VBT and CFT
CO5	Calculation of CFSE for Tetrahedral and Octahedral Complexes
CO6	Explain the types of electronic transition and selection rule
CO7	Apply spectroscopic techniques in analyzing the structure of simple organic Molecules

Elective paper (Semester-VIth)
DSEC-VI (Section-A)
(A2)
Organic + Inorganic Chemistry
Paper No. : P-XIV

Periods: 45

1. Sugar and Alcohol Industry	09
1.1 Manufacturing of raw cane sugar.	
1.2 Refining of raw sugar.	
1.3 White sugar.	
1.4 Byproducts of sugar industry.	
1.5 Manufacturing of ethyl alcohol from molasses.	
1.6 Rectified spirit, denatured spirit absolute alcohol and powdered alcohol.	
1.7 Byproducts of alcohol industry.	
2. Textile Chemistry	08
2.1.1 Introduction and classification of fibers	
2.1.2 Sizing:	
a) Object of sizing, sizing ingredients and their functions.	
b) General idea of properties of starch, softness, synthetic adhesives.	
2.1.3 Bleaching:	
a) Brief study of outline of the process of bleaching cotton and synthetic material.	
b) General idea of processes like singeing, desizing, scouring.	
2.1.4 Dyeing: Study of dyeing, dyeing of cellulosic material and synthetic fibres with dyes like direct, vat, reactive and dispersed dyes.	
3. Agro chemistry	07
3.1.1 General idea of agrochemicals including pyrethroids.	
3.1.2 Synthesis and uses of following agro-chemicals.	
a) Indole-3-acetic acid	
b) Ethophan	
c) Monochrotophos.	
3.1.3 Fertilizers: Introduction and advantages of nitrogenous fertilizers, phosphatic fertilizers, potassic fertilizer and complex fertilizers.	
4. Green Chemistry	06
4.1.1 Introduction: Twelve principles of green chemistry.	
4.1.2 Zeolites: Friedel-Craft alkylation and acylation, oxidation of benzene to phenol and benzoquinone, reduction of benzoquinone to hydroquinone.	
4.1.3 Biocatalytic reactions: hydroxylation and oxidation using enzymes.	
4.1.4 Introduction to microwave assisted reactions.	
Section (B) Inorganic Chemistry	
5. Inorganic Polymers	09
5.1.1 Introduction	
5.1.2 Basic concepts and definition	
i) Polymer ii) Monomer iii) Polymerization iv) copolymer	
v) Degree of polymerization	
5.1.3 Classification of polymers on basis of :	
i) Origin ii) Composition iii) Properties	
iv) Uses	
5.1.4 Comparison between organic and inorganic polymers	
5.1.5 Polymer backbone	
5.1.6 Homoatomic polymers containing-phosphorus	
5.1.7 Heteroatomic polymers	
i) Silicones ii) Phosphonitric compounds	
iii) Fluorocarbons.	
6. Nanotechnology	06
6.1.1 Introduction.	
6.1.2 Properties of nanoparticles.	
6.1.3 Application of nanoparticles.	

Elective paper (Semester-VIth)
DSEC-VI (Section-A)
(A2)
Organic + Inorganic Chemistry
Paper No. : P-XIV

Periods: 45

7. Sugar and Alcohol Industry	09
7.1 Manufacturing of raw cane sugar.	
7.2 Refining of raw sugar.	
7.3 White sugar.	
7.4 Byproducts of sugar industry.	
7.5 Manufacturing of ethyl alcohol from molasses.	
7.6 Rectified spirit, denatured spirit absolute alcohol and powdered alcohol.	
7.7 Byproducts of alcohol industry.	
8. Textile Chemistry	08
8.1.1 Introduction and classification of fibers	
8.1.2 Sizing:	
c) Object of sizing, sizing ingredients and their functions.	
d) General idea of properties of starch, softness, synthetic adhesives.	
8.1.3 Bleaching:	
c) Brief study of outline of the process of bleaching cotton and synthetic material.	
d) General idea of processes like singeing, desizing, scouring.	
8.1.4 Dyeing: Study of dyeing, dyeing of cellulosic material and synthetic fibres with dyes like direct, vat, reactive and dispersed dyes.	
9. Agro chemistry	07
9.1.1 General idea of agrochemicals including pyrethroids.	
9.1.2 Synthesis and uses of following agro-chemicals.	
d) Indole-3-acetic acid	
e) Ethophan	
f) Monochrotophos.	
9.1.3 Fertilizers: Introduction and advantages of nitrogenous fertilizers, phosphatic fertilizers, potassic fertilizer and complex fertilizers.	
10. Green Chemistry	06
10.1.1 Introduction: Twelve principles of green chemistry.	
10.1.2 Zeolites: Friedel-Craft alkylation and acylation, oxidation of benzene to phenol and benzoquinone, reduction of benzoquinone to hydroquinone.	
10.1.3 Biocatalytic reactions: hydroxylation and oxidation using enzymes.	
10.1.4 Introduction to microwave assisted reactions.	
Section (B) Inorganic Chemistry	
11. Inorganic Polymers	09
11.1.1 Introduction	
11.1.2 Basic concepts and definition	
i) Polymer ii) Monomer iii) Polymerization iv) copolymer	
v) Degree of polymerization	
5.1.3 Classification of polymers on basis of :	
i) Origin ii) Composition iii) Properties	
iv) Uses	
5.1.4 Comparison between organic and inorganic polymers	
5.1.5 Polymer backbone	
5.1.6 Homoatomic polymers containing-phosphorus	
5.1.7 Heteroatomic polymers	
i) Silicones ii) Phosphonitrilic compounds	
iii) Fluorocarbons.	
12. Nanotechnology	06
12.1.1 Introduction.	
12.1.2 Properties of nanoparticles.	
12.1.3 Application of nanoparticles.	

Reference books:

1. Basic concept of analytical chemistry by S. M. Khopkar, Wiley estern ltd. Bombay.
2. Industrial chemistry by R. K. Das, Asia publication Mumbai.
3. Rigeegels hand book of industrial chemistry by J. A. Kent, Van. Nostrard, London.
4. Chemistry process industries by shreve and Brinic- Ostim, Magraw Hill New York.
5. Biotechnology and applied microbiology by Alani and Moo-young.
6. Immobilize Biocatalysis by Joy Wleser
7. Introduction to polymer chemistry by Reymano B. Seymour.
8. Advances in green chemistry: chemical synthesis using microwave irradiation by R. S. Varma.
9. Green chemistry: Environment friendly alternatives: by Rashmi Sanghi and M. M. shrivastav (Eds)
© 2003 Narosa publishing house New Delhi India.
10. Textile Science by J. T. Marsh
11. Book of textile by A. J. Hall.
12. Sizing by D. B. Ajagaonakar
13. Bleaching by V. A. Sheni.
14. Dyeing by V. A. Sheni.
15. Chemicals for crop improvement and pest management by Green, Hartly and Weste
16. Chemistry of pesticides by K. H. Buchel (T.W.)
17. Principles of inorganic chemistry by Puri, Sharma and Kalia.
18. Text Book of inorganic chemistry by K. N. Upadhyanaya Vikas publishing House New Delhi.
19. Progress in inorganic polymer by Laport and Leigh
20. Nanomaterials and nanostructures by Laura Castle, April Feter Dominant publisher 2007
21. Nanoscale materials in chemistry by K. J. Kalbunde (Wiley intersciences)
22. Introduction to Nanoscience and nanotechnology by K. K. Chatopadhya. A. N. Banerjee, PHI learning Pvt. Ltd., New Delhi.
23. Introduction to Nanotechnology by Charles P. Poole (Jr.), Frank J. Owen & Wiley students Etd., 2008.
24. Nanotechnology: future technology with futures, BPB publication, New Delhi.

Objective(s)	The aim of this paper is to expose the students with the knowledge in Sugar and Alcohol Industry, Textile Chemistry, Agro Chemistry, Green Chemistry, Inorganic Polymers and Nanotechnology
Course Outcome(s)	
CO1	Understand the Basic concept of Sugar and Alcohol Industry
CO2	Synthesis and uses of Agro Chemicals
CO3	To enable the students to understand the classification of Fibers
CO4	To learn the basic concept and classification of Inorganic Polymers
CO5	Able to understand the theory of green chemistry
CO6	Ability to apply green chemical laboratory techniques
CO7	To stimulate the learner in understanding the basic concepts and applications of nanotechnology

Practical paper elective (Semester- Vth & VIth)
DSECP-IV
DSEC V & VIth (Section-A)
Organic + Inorganic Chemistry
Paper No. : P-XVI

Periods – 120

Laboratory Course – IV (CH-305)

Mark 50

Note : At least Sixteen experiments to be completed : (Twelve from Section A and four from Section B)

Section – A (Organic Chemistry)

01. Organic qualitative analysis: (Seven mixtures)

Separation of organic binary mixture containing two solid components (Using Water NaHCO₃, NaOH and HCl) and analysis single components with preparation of derivative.

02. Synthesis of organic compounds : (Any four)

[Weight and percent yield of crude product , recrystallisation of crude product and its melting point expected]

- a) Benzoylation of Phenol
- b) Benzoylation of Aniline
- c) Preparation of o-nitro aniline from M-dinitro benzene from acetanilide (Partial Reduction)
- d) Preparation of iodoform from ethyl alcohol
- e) Preparation of iodoform from Acetone
- f) Preparation of Benzamide from benzoic acid

3. Only demonstrations :

- a) Separation of fluorescein and methylene blue
- b) Separation of leaf pigments from spinach leaves
- c) Resolution of racemic mixture of (+) mandelic acid

Section – B (Inorganic Chemistry)

1. Preparation of sodium trioxalato ferrate (III), Na₃[Fe(C₂O₄)₃].
2. Preparation of cis-and trans-bisoxalato diaqua chromate (III) ion.
3. Preparation of copper tetraammine complex. [(Cu(NH₃)₄)SO₄].

Reference Books :

- 1) Practical organic chemistry by A.I.Vogel
- 2) Advanced practical organic chemistry by O.P.Agarwal
- 3) Advanced practical organic chemistry by N.K.Vishnoi
- 4) Hand book of organic qualitative analysis by H.T.Clarke
- 5) Experimental practical organic chemistry by P.R.Singh, D.S.Gupta
- 6) A laboratory Hand book of organic qualitative analysis by V.S.Kulkarni
- 7) Hand book of organic qualitative analysis by F.G.Mann, B.C.Sunders
- 8) A text book of Practical Chemistry for B.Sc. by V.V. Nadkarni, A.N. Kothare and Y.V. Lawande.
- 9) Advanced practical Inorganic Chemistry by O.P. Agarwal.

Objective(s)	To train the students in laboratory works
Course Outcome(s) :-	By considering the scope of chemistry in different pharmaceuticals to make trained man power in synthetic chemistry and analysis .

B. Sc. Third Year: Semester-VI
(DSEC-VI, Section B)
Physical & Inorganic Chemistry
Paper-XV

Marks – 50

Periods – 45

Section – A (Physical Chemistry)

Unit –I Electrochemistry:

12 Periods

- i) Introduction, concept of electrode potential , single electrode potential, standard electrode potential , oxidization and reduction potential
- ii) Electrochemical cells , electrolytic and Galvanic cells , reversible and irreversible cells, conventional representation of electrochemical cells.
- iii) EMF of cell , SHE.
- iv) Reference electrodes , indicator electrodes , calomel electrodes,
- v) Relation between EMF and ΔG , ΔH , ΔS
- vi) Nernst equation, application of Nernst equation to oxidation half cell and reduction half cell.
- vii) Electrolyte concentration cell, Concentration cell with and without transport.
- viii) Application of EMF measurement in determination of pH by using i) Quinhydrone electrode b) Glass electrode.
- ix) Numerical on Nernst Equation.

Unit II : Thermodynamics I :

07 Periods

- a) Introduction
- b) Work function and free energy function(G): Helmholtz Function (A) or work function, Change of work function (A) at constant temperature , Gibbs' free energy function, relation between G and A, change of G at constant temperature, variation of work function with temperature and volume, variation of free energy function with temperature and pressure. The Gibb's-Helmholtz equation.
- c) The Nernst heat theorem. Third law of thermodynamics.
- d) Thermodynamics of open system: partial molar properties; concept of chemical potential, partial molar free energy. Gibb's-Duhem equation. Variation of chemical potential with temperature and pressure. Chemical potential in case of a system of ideal gases.

Unit-III: Thermodynamics II:

05 Periods

- a) Thermodynamic derivation of law of mass action. Relation between ΔG^0 and K_p , relation between K_p , K_c AND K_x .
- b) Vant-Hoff's reaction isochore. Integrated form of Vant-Hoff's equation.
- c) Clausius-Clapeyron equation and its applications.
- d) Numerical on Integrated form of Vant-Hoff's equation.

Unit-IV: Magneto chemistry and magnetic properties of substance:

06 Periods

- a) Introduction, Magnetic susceptibility, Specific susceptibility, unit of measurement.
- b) Types of substances: Paramagnetic, diamagnetic and ferromagnetic.
- c) Effect of temperature on Paramagnetic, diamagnetic, ferromagnetic substances.
- d) Measurement of magnetic susceptibility: Gouy's method.

Section B (Inorganic Chemistry)

Unit IV : Bioinorganic Chemistry	05 Periods
5.1.1) Essential and trace elements in biological processes	
5.1.2) Metalloporphyrin with special reference to hemoglobin and myoglobin	
5.1.3) Biological role of alkali and alkaline earth metal ions	
5.1.4) Nitrogen fixation	
Unit V : Metal cluster	10 Periods
5.2.1) Boranes	
5.2.2) Carboranes	
5.2.3) Metalloboranes	
5.2.4) Metallocarboranes	

Reference Books:

1. Physical Chemistry by G. M. Barrow (Tata Mc-Graw Hill publishing Co., Ltd.)
2. Elements of Physical Chemistry by S. Glasstone & D. Lewis (D.van nostrand co. inc.)
3. Physical Chemistry by W. J. Moore (Orient Longman).
4. Principles of Physical Chemistry by S. H. Maron and C. F. Prutton.
5. University General Chemistry by C. N. R. Rao (Mc-Millan).
6. Elements of Physical Chemistry by P. W. Atkins. (Oxford University Press).
7. Physical Chemistry by R. A. Alberty (Wiley Eastern Ltd.).
8. Physical Chemistry through problems by S. K. Dogra, D. Dogra(Wiley Eastern Ltd)
9. Principles of Physical Chemistry by Puri, Sharma and Pathania (Vishal Publication Jalandher, Delhi)
10. Physical Chemistry by A. J. Mee. ELBS & Heinemann Educational Books Ltd.
11. Essentials of Physical Chemistry by Arun Bhal, B. S. Bahl and G. D. Tuli. (S. Chand)
12. Kinetics by K. J. Laidler (Tata Mc-Graw Hill Publishing Co. Ltd).
13. Text Book of Physical Chemistry by Soni-Dharmarha.
14. A Text Book Physical Chemistry by S. Glasstone, (Mac Millan.)
15. Advanced Physical Chemistry by D.N.Bajpai. (S.Chand)
16. Advanced Physical Chemistry by Gurdeep Raj. (Goel publishing house, Meerut).
17. Principles of Inorganic Chemistry by Puri, Sharma and Kalia.
18. Inorganic Chemistry by Gurudeep Raj, Chatwal.
19. Advanced Inorganic Chemistry Vol. II by Satyaprakash, Tuli, Basu and Madan.
20. Inorganic Chemistry by huheey, Keiter and Keiter.
21. Concise Inorganic Chemistry by J.D. Lee.

Objective(s)	To familiarize the students with the concept and principle Electrochemistry, Thermodynamics, Magnetochemistry, Bioinorganic Chemistry and Metal Clusters
Course Outcome(s)	
CO1	Basic concepts of electrochemistry and its applications
CO2	Understanding the Nernst heat theorem and the Thermodynamics open system
CO3	Know the Vant-Hoff's Reaction Osochore and numerical on it
CO4	Explain the types of magnetic substances and effect of temperature on it
CO5	Biological role of alkali and alkaline earth metal ions
CO6	Describe the structures and functions of Metal Cluster

Practical paper (Semester- Vth & VIth)
DSECP-V
DSEC Vth & VIth (Section-B)
Physical + Inorganic Chemistry
Paper No. : P-XVII

Periods – 120

Laboratory Course – V (CH-306)

Mark 50

Note : At least Sixteen experiments to be completed : (Twelve from Section A and four from Section B)

Section – A (Physical Chemistry)

Instrumental

1. Determine the normality and strength of oxalic acid conductometrically using standard solution of strong base (NaOH/KOH).
2. Determine the concentration of KCl solution by titrating it with standard solution of AgNO₃ conductometrically.
3. Determine the equivalent conductance of a strong electrolyte at several concentrations and hence verify the Onsager's equation.
4. Determine the normality and strength of acids in mixture [strong acid (HCl/HNO₃) and weak acid (CH₃COOH/HCOOH)] potentiometrically using standard solution of strong base (NaOH/KOH).
5. Determine the dissociation constant of a weak acid (CH₃COOH/HCOOH) potentiometrically using standard solution of strong base (NaOH/KOH).
6. Determination of empirical formula of a complex between Fe³⁺ and 5-sulphosalicylic acid by Job's method colorimetrically.
7. Determination of dissociation constant of an organic acid (CH₃COOH) using various buffers (CH₃COOH + CH₃COONa) pH metrically.
8. To study inversion of cane sugar by polarimetrically.

Non-Instrumental

1. Determine the rate constant of the reaction between potassium persulphate and potassium iodide having equal concentrations of reacting species (a=b).
2. Determine energy of activation of hydrolysis of an ester by acid/base.
3. Investigate the reaction between bromic acid and hydroiodic acid.
4. Determine molecular weight of non volatile solute by Rast method / Beckmann's freezing point method.
5. Determine enthalpy change of neutralization of a strong acid by a strong base.
6. Determine interfacial tension between immiscible liquids, benzene and water by stalagmometer.
7. Determine molecular weight of a polymer by viscosity measurement.
8. Separation of mixture of o- and p-nitro anilines on an alumina column.

Section – B (Inorganic Chemistry)

1. Inorganic preparations and estimation of metal ion.
 - a) [Cu(NH₃)₄]SO₄
 - b) [Ni(NH₃)₆]Cl₂
 - c) CoCl₃.4NH₃
 - d) Sodium trioxalato ferrate
 - e) Hg[Co(SCN)₄].
 - f) Mohr's salt, [FeSO₄(NH₄)₂SO₄].6H₂O

Reference Books :

1. Experimental Physical Chemistry by A. Findlay., Longman.
2. Advanced Practical Physical Chemistry by J.B. Yadav.
3. Experiments in Physical Chemistry by R.C. Das and B. Behra, Tata Mc Graw Hill.
4. Advanced experimental Chemistry Vol. I. Physical by J.N. Gurtu and R. Kapoor., S. Chand & Co.
5. Experiments in Physical Chemistry by J.C. Ghosh, Bharati Bhavan.
6. Practical book of Physical Chemistry by Nadkarni, Kothari & Lawande., Bombay Popular Prakashan.
7. Systematic Experimental Physical Chemistry by S.W. Rajbhoj, Chondhekar, Anjali Prakashan.
8. Practical Physical Chemistry by B.D. Khosla & V.C. Garg., R. Chand & Sons.
9. Experiments in Chemistry by D.V. Jagirdar.
10. Practical Chemistry, Physical – Inorganic – Organic and Viva – voce by Balwant Raii Satia., Allied Publishers Pvt. Ltd.
11. College Practical Chemistry by H.N. Patel, S.R. Jakali, H.P. Subhedar, Miss. S.P. Turakhia, Himalaya Publishing Hose, Mumbai.
12. College Practical Chemistry by Patel, Jakali, Mohandas, Israney, Turakhia, Himalaya Publishing Hose, Mumbai.
13. A text book of Practical Chemistry for B.Sc. by V.V. Nadkarni, A.N. Kothare and Y.V. Lawande.
14. Advanced practical Inorganic Chemistry by O.P. Agarwal

Spectroscopic Techniques and Cosmetic Preparation

- | | |
|---|------------|
| 1. Instruments in spectroscopy. | 15 Periods |
| Instrumentation: Study of UV, IR, NMR and Mass spectroscopy. | |
| 2. Determination of structures of organic compounds by using UV, IR, NMR and Mass spectra: 15 Periods | |
| Hydrocarbons, unsaturated hydrocarbons, alcohols, amines, aldehydes, ketones, carboxylic acids and esters, acid halides, amides and anhydrides. | |
| 3. Preparation of cosmetics | 15 Periods |
| i) Preparation of talcum powder | |
| ii) Preparation of shampoo | |
| iii) Preparation of face cream | |
| iv) Preparation of nail polish and nail polish remover | |

Reference Books:

- 1) Spectroscopy of Organic compounds by P. S. Kalsi.
- 2) Organic Spectroscopy principle and application by Jag Mohan.
- 3) Spectroscopy by Pavia, Kriz, Vy vyan.
- 4) Elementary Organic Spectroscopy by Y.R.Sharma
- 5) Organic Structure analysis by Phillips Crews, Jaime Roderiguez Marcel Jaspars
- 6) Industrial Chemistry Vol-I, E.Stochi , Ellis Harwood Ltd. UK
- 7) Engineering Chemistry, P. C. Jain, Dhanpal Rai & Son's Delhi.
- 8) Industrial Chemistry by Sharma B. K. and Gaur H., Geol Publishing House Meerat 1996.

OR

BASIC ANALYTICAL CHEMISTRY:

Unit-I : Preliminary Operations in Quantitative Analysis : 15 Periods

Introduction, sampling: definitions, purpose of sampling, theory of sampling, types of sampling, sampling of solids, liquids and gases. Preparation of laboratory samples: crushing and grinding of laboratory samples; moisture in samples and drying, determination of water in sample, decomposition and dissolution of samples, some general considerations.

Unit – II: Principles and Methods of Analysis of Saponifiable Oils and Fats: 15 Periods

Definition, Classification, Nomenclature & Fatty acid composition of oils and fats. Analysis by physical and chemical methods- Density, Specific gravity, colour, acid value, iodine value, Saponification value

1. Determination of Iodine value of an oil sample.
2. Determination of specific gravity of an oil sample.
3. Determination of acid value of an oil sample.
4. Determination of saponification value of an oil sample.

Reference Books:

1. Analytical chemistry: an introduction: D. A. Skoog, D. M. West and F. J. Holler, Saunders College publishers, 6th edition.
2. An introduction to analytical chemistry, S. A. Iqbal, M. Satake, Y. Mido and M. S. Shethi.
3. College analytical chemistry: Joshi, Baliga and Shetty, Himalaya Publishing house.
4. Quantitative Analysis-R.A Day and A.L Underwood.
5. Analytical Chemistry-Theory and Practice UN Dash, Sultan Chand and Sons, New Delhi, 2005.
6. Qualitative inorganic analysis: A. I. Vogel.
7. Principles of analytical chemistry: Pandit and Soman.
8. Analytical chemistry, G. D. Christian, J. Wiley eastern press Ltd.
9. Analytical chemistry: Alka Gupta.
10. Basic concepts of analytical chemistry: S. M. Khopkar.
11. Advanced practical organic chemistry: Vishnoi.

Objective(s)	This course aims to give clear understanding of the basic concept of Spectroscopic Technique, cosmetics preparation and basic analytical chemistry
Course Outcome(s)	
CO1	Be able to determine the structure by using Spectra
CO2	To train the students for the preparation of various cosmetics
CO3	Know the classification and Fatty acid composition of Oils and Fats
CO4	Analysis of Oils and Fats by physical and chemical method

Swami Ramanand Teerth Marathwada University, Nanded

Choice Based Credit System (CBCS) Course Structure

Faculty of Science

B. Sc. Second Year Syllabus

Semester Pattern effective from June 2017

Subject: Microbiology

Semester	Course No.	Name of the Course	Instruction Hrs/ week	Total period	CA	ESE	Total Marks	Credits
III	CCMB III (Section A)	Applied Microbiology (P-VI)	03	45	10	40	50	2
	CCMB III (Section B)	Immunology (P-VII)	03	45	10	40	50	2
	CCMBP II [CCMB III & IV (Section A)]	Practical's based on P-VI & P-VIII (P-X)	03 03	practical 08 08	05 05	20 20	25 25	1 1
	SECMB I	SEC I (Anyone Skill from optional)	02+ 01	45	25	25	50	(02)*
IV	CCMB IV (Section A)	Food, Soil Microbiology and Microbial Ecology (P-VIII)	03	45	10	40	50	2
	CCMB IV (Section B)	Medical Microbiology (PIX)	03	45	10	40	50	2
	CCMBP III [CCMB III & IV (Section B)]	Practical's based on P-VII & P-IX (P-XI)	03 03	practical 08 08	05 05	20 20	25 25	1 1
	SECMB II	SEC II (Anyone Skill from optional)	02+ 01	45	25	25	50	(02)*
Total credits semester III and IV								12(04)*

Note – ESE of CCMBP II, CCMBP III & SECMB I, SECMB II should be evaluated at annual

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course Structure

B. Sc. second year (Semester- III)

Semester Pattern effective from June -2017

Microbiology

CCMB III (Section A)

APPLIED MICROBIOLOGY (P-VI)

Credits: 02 (Marks: 50)

Periods: 45

Unit-I Air Microbiology

10

Definition and composition of air, sources of microorganisms in air, significance of microorganisms in air (beneficial and harmful), droplet, droplet nuclei and aerosol, enumeration of microorganisms in air, control of microorganisms in air.

Unit-II Water Microbiology

12

Types of water, Sources of microorganisms in water, Index of water pollution, Different indicator microorganisms, coliform bacteria, Microbial examination of water, water borne diseases.

Unit- III Sewage Microbiology

13

Definition of sewage, composition and strength of sewage (BOD and COD), Microbiology of sewage, Domestic sewage treatment, Municipal sewage treatment (Primary, secondary, Tertiary sewage treatment) and Composting.

Unit-IV Milk Microbiology

10

Definition and composition of milk, sources of contamination of milk, desirable and undesirable changes in milk, milk born diseases, Microbial examination of milk, pasteurization of milk, Application of microorganisms in dairy industry (examples and microflora).

Reference Books:-

1. Air microbiology an environment and Health Prospective by Aithal, Wakte & Manwar.
2. Cinnamonteal print and publishing Margao, Goa -403601.
3. Fundamental principles of bacteriology by A. J. Salle.
4. Fundamentals of Microbiology by Martin Frobisher.
5. General microbiology by Stanier, Ingraham, Wheelis, Pinter: Macmillan press Ltd. London.
6. General Microbiology Vol. II by Power C.H and H.F. Dagainawala. Himalaya Publishing
7. House, Mumbai.
8. Microbiology by Pelczar and Crick.
9. Text book of Microbiology by Dubey and Maheshwari.
10. Text book of Applied Microbiology by Dr. B. M. Sandikar.

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course Structure

B. Sc. second year (Semester- III)

Semester Pattern effective from June -2017

Microbiology

CCMB III (Section B)

IMMUNOLOGY (P-VII)

Credits: 02 (Marks: 50)

Periods: 45

Unit- I Infection, Immunity and Immune response. 13

Infection: Definition, types of infections, sources of infection, modes of transmission, Microbial pathogenicity, Aggressive factors of pathogens.

Immunity: Definition and classification with suitable examples.

Unit- II Antigens, Antibodies and Immune Response 12

Antigen: Definition, general properties, antigen specificity, bacterial antigens with reference to *S. typhi*.

Antibody: Definition, properties, structure of immunoglobulin, immunoglobulin classes.

Immune response: Definition, types and mechanism- Humoral and cellular, list of effector Molecules, Theories of antibody production.

Unit -III Antigen antibody reactions 10

Mechanism and applications of the following reaction with suitable examples:

Agglutination, precipitation, complement fixation, virus neutralization, toxin neutralization reaction

Principle and applications of recent techniques: Enzyme linked immunosorbent assay, Radioimmunoassay, Immunofluorescence test.

Unit-IV Hypersensitivity 10

Definition, classification on the basis of time (Delayed and immediate) and mechanism (Type I, II, III and IV) with one example of each.

Reference Books:

1. Basic Immunology by Joshi and Osarano. Agrobotanical publishers Ltd. Bikaner.
2. Elementary Microbiology Vol. I and II Dr. A. H Modi. Akta Prakashan. Nadiad.
3. Medical Microbiology. N. C. Dey and T. K. Dey. Allied agency, Calcutta.
4. Microbiology by Davis, Dulbecco, Eisen Harper and Row Maryland.
5. Molecular biology by David Frifelder, Narosa Publishing house, New Delhi.
6. Immunology by B. S. Nagoba and D. V. Vedpathak. BI publications, New Delhi.
7. Text book of Microbiology by R. Anantharayanan, C.K. Jayaram Panikar, Orient Longman, Mumbai.

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course Structure

B. Sc. second year (Semester- IV)

Semester Pattern effective from June -2017

Microbiology

CCMB IV (Section A)

Food, Soil Microbiology and Microbial Ecology (P-VIII)

Credits: 02 (Marks: 50)

Periods: 45

Unit-I Food microbiology	12
Definition and composition of food, Sources of contamination in food, Factors affecting kind and number of microorganisms in food. Significance of microorganisms in food, Spoilage and its types (Different types of spoilages with suitable examples). Preservation of food, food poisoning (Botulinum, Staphylococcal intoxication and Salmonellosis).	
Unit –II Soil microbiology and carbon cycle	11
Definition and composition of soil, types of soil, signification of microorganisms in soil, soil as culture medium. Carbon cycle (with respect to cellulose and starch).	
Unit –III Elemental transformation in soil	13
Nitrogen cycle, Sulfur cycle, Phosphorus cycle.	
Unit –IV Microbial interaction, association and ecology.	09
Symbiosis, antibiosis, mutualism, parasitism. Microbe –microbe interaction-Lichen Plant-microbe interaction: Mycorrhiza, Rhizosphere. Animal - microbe interaction: Rumen, bioluminescence Concept of population, community, Microbial succession, climax and adaptation (Phenotypic and genotypic adaptations).	

Reference Books:

1. A Manual of Environmental Microbiology. Second Edition .2001 by Christion J. Hurst (Chief Editor), ASM Publications.
2. Environmental Biology. Edited by C. F. Foster and D. A. John Wase. Ellis Horwood Ltd. Publication.
3. Environmental Microbiology edited by Ralph Mitchell. A john Wiley and Sons. Inc.
4. General Microbiology Vol. I and II by Power C. H. & H. F. Dagainawala. Himalaya Publishing House, Mumbai.
5. Microbiology by Pelczar and Crick.
6. General Microbiology by Stanier. Ingraham, Wheelis, Painter: Macmillan Press Ltd. London.
7. Fundamental principles of bacteriology by A. J. Salle.
8. Food microbiology by Frazier.
9. Soil microbiology by Subba Rao.
10. Soil microbiology by Alexander.
11. Fundamentals of Microbiology by Martin Frobisher.
12. Text book of Microbiology by Dubey Maheshwari.
13. Prescott Microbiology by Prescott, Harley and Klein (TMH Publication)

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course Structure

B. Sc. second year (Semester- IV)

Semester Pattern effective from June -2017

Microbiology

CCMB IV (Section B)

Medical Microbiology (P-IX)

Credits: 02 (Marks: 50)

Periods: 45

Unit-I Bacterial infection **12**

Etiology, pathogenesis, Clinical features, laboratory diagnosis, epidemiology, treatment and prophylaxis of the following:

- a. Cholera
- b. Typhoid

Unit - II Bacterial infection **10**

Etiology, pathogenesis, Clinical features, laboratory diagnosis, epidemiology, treatment and prophylaxis of the following:

- a. Diphtheria
- b. Pulmonary Tuberculosis
- c. Syphilis

Unit- III Viral infections **13**

Etiology, pathogenesis, Clinical features, laboratory diagnosis, epidemiology, treatment and prophylaxis of the following:

- a. AIDS
- b. Hepatitis A and B only.

Unit - VI Infection by other Microorganisms **10**

- a. Morphology, life cycle, pathogenicity, etiology, laboratory diagnosis, treatment and prophylaxis of Malaria.
- b. Etiology, pathogenesis, Clinical features, laboratory diagnosis and treatment of Candidiosis.

Reference Books:

1. Medical Microbiology. N.C.Dey and T.K. Dey. Allied agency, Calcutta.
2. Microbiology by Davis, Dulbecco, Eisen Harper and Row Maryland.
3. Text book of Microbiology by R. Anantharayanan, C.K. Jayaram Panikar, Orient
4. Longman, Mumbai.
5. Medical microbiology by Chakraborty.
6. Medical Microbiology: Prep Manual for Under Graduates by Nagoba, Elsevier.

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course Structure

B. Sc. Second year Semester Pattern effective from June -2017

MICROBIOLOGY

Practical Paper: CCMBP II [CCMB III & IV (Section A)]

Credits: 02

(Marks: 50)

(Annual practical Based on [CCMB III & IV (Section A)] (Practical syllabus requires four periods per batch per week for 2 consecutive days B.Sc. Second year practical includes studies of growth of microorganisms and life activities of Microorganisms. These studies need two consecutive days for completion of practical.)

1. Bacteriological examination of air by solid impingement techniques.
2. Bacteriological examination of water: Quantitative analysis: MPN method
3. Bacteriological examination of water: Qualitative analysis: Presumptive, confirmatory, completed test,
4. Differentiation between fecal and non-fecal coliforms by IMViC test
5. Elevated temperature test (Ejeckman test).
6. Determination of R: S ratio.
7. Demonstration of Ammonification
8. Demonstration of Nitrification
9. Demonstration of Phosphate solubilization
10. Isolation and study of *Rhizobium* species from root nodules of leguminous plants.
11. Isolation and study of *Azotobacter sp.* from soil
12. Bacteriological analysis of milk: MBRT
13. Bacteriological examination of food by SPC method
14. Bacteriological examination of food by DMC method

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course Structure

B. Sc. Second year Semester Pattern effective from June -2017

MICROBIOLOGY

Practical Paper: CCMBP III [CCMB III & IV (Section B)]

Credits: 02

(Marks: 50)

(Annual practical Based on CCMBP III [CCMB III & IV (Section B)] (Practical syllabus requires four periods per batch per week for 2 consecutive days B.Sc. Second year practical includes studies of growth of microorganisms and life activities of Microorganisms. These studies need two consecutive days for completion of practical.)

1. Blood staining by Leishman's / Giemasa's method.
2. Metachromatic granule staining (Albert's Method)
3. Acid fast staining.
4. RBC counting.
5. WBC counting.
6. Blood grouping.
7. Widal test: Qualitative and Quantitative by slide method.
8. RPR test.
9. Gel diffusion test (Demonstration).
10. Isolation and Study of morphology, cultural and biochemical characteristics of the *Salmonella spp.*
11. Isolation and Study of morphology, cultural and biochemical characteristics of the *Vibrio cholerae.*
12. Antibiotic sensitivity tests for above pathogens by disc diffusion method.

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course Structure
B. Sc. second year (Semester- III)
Semester Pattern effective from June -2017

Microbiology

Skill Enhancement Course SECMB-I (A)

Public Health Microbiology

2 Credits

Objectives :

- To create awareness about the spread of infectious diseases.
- To impart the essential skills for public health laboratory practices
- To increase the employability

Unit I Scope of Public Health Microbiology

Definition, areas covered in Public Health Microbiology,
Overview of disease process

Unit II Water Microbiology

Water borne pathogens & water borne diseases
Bacteria: *E.coli*, *Salmonella*, *Shigella*, *Vibrio cholerae*
Viruses : Enteroviruses, Hepatitis virus
Protozoa : *Entamoeba histolytica*, *Giardia*

Practice 1) Isolation of Coliforms 2) Identification of fecal coliforms by IMViC tests.

Unit III Skill in water quality monitoring

Sources of water, Potable water ,Importance of potable water, Indicator organisms of water pollution, standard tests for determination of potability of water, Quantitative: TC, FC, Membrane Filter count. Qualitative: Presumptive, Confirmed, Completed.

Practice MPN: TC & FC

Unit IV Skill in food and milk quality monitoring

Enrichment culture technique, Detection of specific microorganisms on selective media : XLD agar, Wilson and Blair agar, Manitol Salt agar, MacConckey's agar Pathogenic microorganisms: Salmonella, Coliforms, *Staphylococcus aureus*,

Practice Enrichment culture technique for *Salmonella*, *S.aureus*.

Determination of Microbiological quality of Milk by MBRT, Resazurin Test.

References:

Da Silva N. Taniwaki M.H. Junqueria V.C. Microbiological Examination of food and Water-
A Laboratory Manual

Harrigan W F. Laboratory Methods in Food Microbiology

Garg N ,Garg K.L. A Laboratory Manual in Food Microbiology

Jay J M and Loeswer M. J. Modern Food Microbiology

OR

Skill Enhancement Course SECMB-I (B)

Microbial Biofertilizers

2 Credits

Objectives

- To create awareness about organic farming.
- To impart the essential skill for mass production of biofertilizers
- To develop entrepreneurial skills

Unit I Biofertilizers

General account of the microbes used as biofertilizers for various crop plants and their advantages over chemical fertilizers.

Unit II Nitrogen fixing bacteria

Symbiotic N₂ fixers: Rhizobium - Isolation, characteristics, types, inoculum production and field application, legume/pulses plants

Non - Symbiotic N₂ fixers

Free living Azotobacter - isolation, characteristics, mass inoculum production and Field application.

Practice Isolation of Azotobacter from soil and Rhizobium from leguminous nodule

Unit III Mycorrhizal & Algal Biofertilizer

Importance of mycorrhizal inoculums, types of mycorrhizae and associated plants, Mass inoculums. Production of VAM, field applications of Ectomycorrhizae and VAM, Cyanobacteria,, Role in rice cultivation, , field application.

Practice Azolla - Isolation, characterization, mass multiplication

Unit IV Phosphate solubilizers

Phosphate solubilizing microbes - , mass inoculum production, field Application

Practice Isolation and characterization of phosphate solubilizing bacteria

References

Kannaiyan, S. (2003). Bioetchnology of Biofertilizers, CHIPS, Texas.

Mahendra K. Rai (2005). Hand book of Microbial biofertilizers, The Haworth Press, Inc. New York.

Reddy, S.M. (2002). Bioinoculants for sustainable agriculture and forestry, Scientific Publishers.

Subba Rao N.S (1995) Soil microorganisms and plant growth Oxford and IBH publishing co. Pvt. Ltd. NewDelhi.

Aggarwal SK (2005) Advanced Environmental Biotechnology, APH Publications

Verma, A. (1999). Mycorrhiza. Springer Verlag, Berlin.

Wallanda, T. *et al.* (1997). Mycorrhizae. Backley's Publishers,

Swami Ramanand Teerth Marathwada University Nanded

Choice Based Credit System (CBCS) Course Structure

B. Sc. second year (Semester- III)

Semester Pattern effective from June -2017

Microbiology

Skill Enhancement Course SECMB-II (A)

Diagnostic Microbiology

2 Credits

Objectives

- To create awareness about infectious diseases.
- To develop the essential skills among students in diagnostic laboratory techniques
- To increase the job opportunities.

Unit I Importance of diagnosis of diseases

Common Bacterial, Viral, Fungal and Protozoal diseases.

Unit II Collection and Examination of clinical samples.

Collection of clinical samples and precautions required (oral cavity, throat, skin, blood, Urine, Feces). Examination of sample by staining - Gram stain, Ziehl-Neelson staining for tuberculosis, Giemsa stained thin blood film for malaria.

Practice 1) Clinical sample collection from throat & Skin, 2) Blood staining for Malarial parasite (MP).

Unit III Diagnosis of pathogen using culture media

MacConkey's agar, Blood agar, Chocolate agar, Lowenstein-Jensen agar.

Practice 1) Preparation of Blood agar. 2) Preparation of Chocolate agar

Unit IV Serological methods for diagnosis

Agglutination, Precipitation, ELISA, Immuno fluorescence, Kits for rapid detection of Pathogens

Practice 1. Detection of Typhoid by WIDAL 2. Detection of Syphilis by RPR.

References

Ananthanarayan R and Paniker CKJ (2009) Textbook of Microbiology, 8th edition, Universities Press Private Ltd.

Brooks G.F., Carroll K.C., Butel J.S., Morse S.A. and Mietzner, T.A. (2013) Jawetz, Melnick and Adelberg's Medical Microbiology. 26th edition. McGraw Hill Publication

Randhawa, VS, Mehta G and Sharma KB (2009) Practicals and Viva in Medical Microbiology 2nd edition, Elsevier India Pvt Ltd

Tille P (2013) Bailey's and Scott's Diagnostic Microbiology, 13th edition, Mosby

Collee JG, Fraser, AG, Marmion, BP, Simmons A (2007) Mackie and McCartney Practical Medical Microbiology, 14th edition, Elsevier.

OR

Skill Enhancement Course SECMB-II (B)

Medical Laboratory Techniques

2 Credits

Objectives

- To develop interest in paramedical sciences
- To train students for the essential skills in Medical laboratory techniques
- To increase the job opportunities

Unit I Importance of Hematology

Components of Blood and Their functions. Study of Blood groups: ABO, Rh blood groups. Importance of Blood group, Blood collection and Anticoagulants in hematology.

Practice 1) Blood grouping 2) DLC

Unit II Routine Hematological techniques.

Hemoglobin estimation. Acid Hematin method (Sahilis method) ESR, Cynometho hemoglobin Method, Wintrobs method, Capillary methods.

Practice 1) TLC, 2) TEC

Unit III Routine Diagnostic techniques.

Preparation of serum Plasma, Serum Immunoglobins and their significance.

Practice 1) Blood sugar. 2) Serum Cholesterol

Unit IV Urine analysis

Physical analysis: Importance of physical parameters colour , quantity, odour in diagnosis of disease Chemical Analysis: Urine Sugar/Albumin/Bile pigment/bile salt/occult blood/ketone bodies /keto urea and its importance in diagnosis of disease

Practice Physical and chemical analysis of urine

References

Ananthanarayan R and Paniker CKJ (2009) Textbook of Microbiology, 8th edition, Universities Press Private Ltd.

Brooks G.F., Carroll K.C., Butel J.S., Morse S.A. and Mietzner, T.A. (2013) Jawetz, Melnick and Adelberg's Medical Microbiology. 26th edition. McGraw Hill Publication

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Tille P (2013) Bailey's and Scott's Diagnostic Microbiology, 13th edition, Mosby

Collee JG, Fraser, AG, Marmion, BP, Simmons A (2007) Mackie and McCartney Practical Medical Microbiology, 14th edition, Elsevier.

॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

“Dnyanteerth”, Vishnupuri, Nanded - 431606 Maharashtra State (INDIA)

Established on 17th September 1994 – Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



ACADEMIC (1-BOARD OF STUDIES) SECTION

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संलग्नित महाविद्यालयांतील विज्ञान व तंत्रज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे CBCS Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ०८ जून २०१९ रोजी संपन्न झालेल्या ४४व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.११/४४-२०१९ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील विज्ञान व तंत्रज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्यात येत आहेत.

- | | |
|---|---------------------------------------|
| 1. Agricultural Microbiology | 18. Dyes and Drugs |
| 2. Agrochemicals & Fertilizers | 19. Electronics |
| 3. Analytical Chemistry | 20. Environmental Science |
| 4. B.C.A. | 21. Fishery Science |
| 5. B.Voc. (Food Processing, Preservation and Storage) | 22. Food Science |
| 6. B.Voc. (Web Printing Technology) | 23. Geology |
| 7. Biochemistry | 24. Horticulture |
| 8. Bioinformatics | 25. Industrial Chemistry |
| 9. Biophysics | 26. Information Technology (Optional) |
| 10. Biotechnology (Vocational) | 27. Mathematics |
| 11. Biotechnonology | 28. Microbiology |
| 12. Botany | 29. Network Technology |
| 13. Chemistry | 30. Physics |
| 14. Computer Application (Optional) | 31. Software Engineering |
| 15. Computer Science (Optional) | 32. Statistics |
| 16. Computer Science | 33. Zoology |
| 17. Dairy Science | |

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड - ४३१ ६०६.

जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदवी-सीबीसीएस अभ्यासक्रम/
२०१९-२०/२९२

दिनांक : ०३.०७.२०१९.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) साहाय्यक कुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) उपकुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

स्वाक्षरित / -

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग

**Swami Ramanand Teerth Marathwada
University, Nanded
(NAAC Re-accredited with 'A' Grade)**



**Syllabus of
Bachelor of Computer Application (3 years)
(Revised CBCS pattern)**

Introduced from Academic Year 2019-2020

Bachelor of Computer Application

Bachelor of Computer Application (3years) program / degree is a specialized program in computer applications. It builds the student on studies in applied use of computers and to become competent in the current race and development of new computational sciences. The duration of the study is of six semesters, which is normally completed in three years.

CBCS pattern

The Bachelor of Computer Application program as per CBCS (Choice based credit system) pattern, in which choices are given to the students under open electives and subject electives. The students can choose open electives from the wide range of options to them.

Eligibility and Fees

The eligibility of a candidate to take admission to **Bachelor of Computer Application** program is as per the eligibility criteria fixed by the University. More details on admission procedure and fee structure can be seen from the prospectus of the college / institution as well as on website of the University.

Credit Pattern

Every course has corresponding grades marked in the syllabus structure. There are 24 credits per semester. A total of 144 credits are essential to complete this program successfully. The Grading pattern to evaluate the performance of a student is as per the University rules.

Every semester has a combination of Theory (core or elective) courses and Lab courses. Each theory course has 04 credits which are split as 03 external credits and 01 internal credit. The university shall conduct the end semester examination for 03 external credits. For theory internal credit, student has to appear for 01 class test (15 marks) and 01 assignment (10 marks). Every lab course has 02 credits which are split as 01 external credit and 01 internal credit. For lab internal credit, the student has to submit Laboratory Book (05 marks) and remaining 20 marks are for the Lab activities carried out by the student throughout the semester. For lab external credit, 20 marks are reserved for the examinational experiment and 05 marks are for the oral / viva examinations.

The open elective has 04 credits which are purely internal. If students are opting for MOOCs as open elective, then, there must be a Faculty designed as MOOCs course coordinator who shall supervise learning through MOOCs. This is intentionally needed as the MOOCs course coordinator shall verify the MOOC details including its duration, starting date, ending date, syllabus contents, mode of conduction, infrastructure feasibility, and financial feasibility during start of each semester. This is precautionary as the offering of the MOOCs through online platforms are time specific and there must be proper synchronization of semester duration with the MOOCs duration. Students must opt for either institutional / college level open elective or a course from University recognized MOOCs platforms as open electives.

The number of hours needed for completion of theory and practical courses as well as the passing rules, grading patterns, question paper pattern, number of students in practical batches, etc shall be as per the recommendations, norms, guidelines and policies of the UGC, State Government and the SRTM University currently operational. The course structure is supplemented with split up in units and minimum numbers of hours needed for completion of the course, wherever possible.

Under the CBCS pattern, students would graduate **Bachelor of Computer Application** with a minimum number of required credits which includes compulsory credits from core courses, open electives and program specific elective course. All students have to undergo lab / practical activities leading to specific credits and project development activity as a part of professional UG program.

1. **B.Sc. Computer Application Degree** / program would be of 144 Credits. Total credits per semester= 24
2. Each semester shall consist of three core courses, one elective course, one open elective course and two practical courses. Four theory courses (core+elective) = 16 Credits
3. Two practical / Lab courses= 4 Credits in total (02 credits each) , One Open elective= 4 credit
4. One Credit = 25 marks , Two Credits = 50 Marks, Four Credits = 100 Marks

PEO, PO and CO Mappings

1. **Program Name** : Bachelor of Computer Application
2. **Program Educational Objectives:** After completion of this program, the graduates / students would

PEO I :Technical Expertise	Implement fundamental domain knowledge of core courses for developing effective computing solutions by incorporating creativity and logical reasoning.
PEO II : Successful Career	Deliver professional services with updated technologies in Computer application based career.
PEO III :Hands on Technology and Professional experience	Develop leadership skills and incorporate ethics, team work with effective communication & time management in the profession.
PEO IV :Interdisciplinary and Life Long Learning	Undergo higher studies, certifications and research programs as per market needs.

3. **Program Outcome(s):** Students / graduates will be able to

PO1: Apply knowledge of mathematics, science and algorithm in solving Computer problems and applied use of banks.

PO2: Learn various custom software

PO3: Design component, or processes to meet the needs within realistic constraints.

PO4: Identify, formulate, and solve problems using computational temperaments.

PO5: Comprehend professional and ethical responsibility in computing profession.

PO6: Express effective communication skills.

PO7: Recognize the need for interdisciplinary, and an ability to engage in life-long learning.

PO8: Actual hands on technology to understand it's working.

PO9: Knowledge of contemporary issues and emerging developments in computing profession.

- PO10:** Utilize the techniques, skills and modern tools, for actual development process
PO11: Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings in actual development work
PO12: Research insights and conduct research in computing environment.

4. **Course Outcome(s):** Every individual course under this program has course objectives and course outcomes (CO). The course objectives rationally match with program educational objectives. The mapping of PEO, PO and CO is as illustrated below

5. **Mapping of PEO& PO and CO**

Program Educational Objectives	Thrust Area	Program Outcome	Course Outcome
PEO I	Technical Expertise	PO1,PO2,PO3,PO6	All core courses
PEO II	Successful Career	PO4,PO5,PO11,	All discipline specific electives courses
PEO III	Hands on Technology and Professional experience	PO8,PO10	All Lab courses
PEO IV	Interdisciplinary and Life Long Learning	PO7,PO9,PO12	All open electives and discipline specific electives

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
Choice Based Credit System (CBCS)
SEMESTER PATTERN
Faculty of Science & Technology
Under Graduate (UG) Program
Program: Bachelor of Computer Application w.e.f. AY 2019-2020

Year	Semester	Course category	Course Code	Course Title	Credits * *(split up will be given separately)		
First	First	Core Course	BCA-101	Fundamentals of Computer Science and Information Technology	04		
		Core Course	BCA-102	Office Automation	04		
		Core Course	BCA-103	Programming in C	04		
		Chose any one from the below Elective courses					
		Elective Subject	BCA-104 A	Element of Statistics	04		
			BCA-104 B	Mathematical Technique In Computer Science (MTCS)			
		Chose any one Open Elective courses					
		Open Elective	BCA-105 A	University recognized MOOC (NPTEL / SWAYAM / others) OR Intra / Inter Departmental courses OR	04		
			BCA-105 B	Applied English OR Business Communication			
		Lab / Practical	BCA-106	C Programming	02		
			BCA-107	Office Automation	02		
Total					24		
First	Second	Core Course	BCA-201	Business Accounting With Tally	04		
		Core Course	BCA-202	Organizational Behaviour	04		
		Core Course	BCA-203	Web Technology	04		
		Chose any one from the below Elective courses					
		Elective Subject	BCA-204A	E-Commerce	04		
			BCA-204B	Desktop Publishing (DTP)			
		Chose any one Open Elective courses					
		Open Elective	BCA-205A	University recognized MOOC (NPTEL / SWAYAM / others) OR Intra / Inter Departmental courses OR	04		
			BCA-205B	Functional English OR Corporate English			
		Lab / Practical	BCA-206	Tally.ERP 9	02		
			BCA-207	Web Technology	02		
Total					24		
For skill enhancement, if any, in all semesters, online course with internal credits is mandatory							

Name of Course	Bachelor of Computer Application (BCA)
Semester	I
Name of Subject	Fundamentals of Computer Science and Information Technology
Subject Code	BCA-101
Marks	75 Marks
Lectures	50 Lectures

Objectives

Through this paper Student should learn basic principles of computer. The paper is designed to aim at importing basic level of Computer.

Outcome

To learn Basic Function of Devices like I/O, HDD etc. To Understand the Fundamental of Software and Hardware. Understand the Concept of Operating System and Network.

Unit I

- | | | |
|-----------|---|--------------------|
| 1. | Introduction to Computer and History | 15 Lectures |
| | 1.1 Definition of Computer | |
| | 1.2 Basic Computer Organization | |
| | 1.3 Characteristics of Computer | |
| | 1.4 Generations of Computer | |
| | 1.5 Types of Computer:- Microcomputer, Minicomputer, Mainframe
Computer, Workstations, Client and Server | |

Unit II

- | | | |
|-----------|--|--------------------|
| 2. | Computer Peripherals & Memory | 10 Lectures |
| | 2.1 Input Devices :- Keyboard, Mouse, Trackball, Joystick, Light pen | |
| | 2.2 Output Devices :- Monitor, Printer, Projector, Biometric Devices | |
| | 2.3 Computer Memory :- RAM, ROM, Cache Memory | |

Unit III

- | | | |
|-----------|---|--------------------|
| 3. | Storage Devices and Operating System | 15 Lectures |
| | 3.1 Compact Disk, Digital Versatile Disk | |
| | 3.2 Hard Disk Drive | |
| | 3.3 USB Flash Drive | |
| | 3.4 Memory Card | |
| | 3.5 Definition of operating System | |
| | 3.6 Types of Operating System | |
| | 3.7 Disk Operating System | |
| | 3.8 Windows Operating System | |
| | 3.9 Linux Operating System | |

Unit IV

- | | |
|---|--------------------|
| 4. Introduction to Computer Network & Internet | 10 Lectures |
| 4.1 Definition of Network | |
| 4.2 Types of Network :- LAN,MAN,WAN | |
| 4.3 Data Transmission Modes | |
| 4.4 OSI Model | |
| 4.5 E-Mail | |
| 4.6 File Transfer Protocol | |
| 4.7 Web Browser | |
| 4.8 Types of Web Browser | |

References:-

- 1 Fundamental of Computer –5th& 6th Edition, P.K.Sinha, BPB Publication
- 2 Fundamental of Computer - V. Raja Raman, PHI Publication

Name of Course	Bachelor of Computer Application (BCA)
Semester	I
Name of Subject	Office Automation
Subject Code	BCA-102
Marks	75 Marks
Lectures	50 Lectures

Objectives

The main objective of Office Automation is to enhance and upgrade the existing system by increasing its efficiency and effectiveness. It will simplify the task and reduce the paper work means the software improves the working methods by replacing the existing manual system with the computer-based system.

Outcomes

After completion of this course student will be able to understand the computer software, hardware, made available to simplify and automate a variety of office operations such as data processing, data manipulating and data presentation with various application those are presents in Microsoft office tools packages.

Unit I

1.	Introduction to MS-Word.	20 Lectures
-----------	---------------------------------	--------------------

- 1.1 Word 2010 Basics: - Opening screen of MS-word,
- 1.2 Home menu- font tab,
- 1.3 Paragraph tab,
- 1.4 Styles tab
- 1.5 Editing options in MS-Word
- 1.6 Insert menu- table tool
- 1.7 Header and Footer tool
- 1.8 Mail-merge
- 1.9 Custom dictionary
- 1.10 Printing in MS-Word
- 1.11 Creating Index in MS-Word.

Unit II

2.	Working with MS-Excel.	10 Lectures
-----------	-------------------------------	--------------------

- 2.1 Introduction to MS-Excel
- 2.2 Formatting cells
- 2.3 Formatting columns
- 2.4 Row height
- 2.5 Merging
- 2.6 Splitting columns and connecting the worksheets
- 2.7 Working with Formulas and Functions
- 2.8 Creating charts
- 2.9 Goal seek
- 2.10 Data validation
- 2.11 Conditional Formatting.

Unit III

- | | |
|---|--------------------|
| 3. Working with Microsoft power point. | 10 Lectures |
| 3.1 Opening Screen of MS PowerPoint | |
| 3.2 Creating a new presentation based on template | |
| 3.3 Design template and blank presentation | |
| 3.4 Slide Transition | |
| 3.5 Custom Animation effects | |
| 3.6 Slide show | |
| 3.7 Adding audio and video on slides. | |

Unit IV

- | | |
|---|--------------------|
| 4. Introduction to MS-Access. | 10 Lectures |
| 4.1 Opening screen of MS-Access | |
| 4.2 Advantages and disadvantages of MS-Access | |
| 4.3 Performing Queries | |
| 4.4 Generating the report | |
| 4.5 Creating the database in Access | |
| 4.6 Creating forms and adding new records in MS-Access. | |

References:-

- 1. MS-DOS 6.22 by Russell A Stultz BPB publication.**

Name of Course	Bachelor of Computer Application (BCA)
Semester	I
Name of Subject	Programming in C
Subject Code	BCA-103
Marks	75 Marks
Lectures	50 Lectures

Programming in 'C' Objective

It is general purpose and procedure oriented programming language. In which we are able to develop OS and MAC operating system, application software and programming languages. Programming Language are also used to build students logic for programming.

Programming in 'C' Outcomes

To study of structure of programming languages, structure of c program.

To study different keyword for making program.

To develop programs using operators and control statement.

To describe an array, structure, union, string and functions.

Student are able to develop application software.

UNIT I

1. Introduction to Programming in C

15 Lectures

- 1.1 History
- 1.2 Compilers and Interpreters
- 1.3 Algorithms
- 1.4 Flowcharts
- 1.5 Structure of a C program
- 1.6 C Tokens
 - 1.6.1 Keywords
 - 1.6.2 Variables
 - 1.6.3 Primary Data types
 - 1.6.4 Operators
- 1.7 Formatted I/O Statement
- 1.8 Unformatted I/O Statement

UNIT II

2. Controlling Statement

10 Lectures

- 2.1 Decision Making Statement
 - 2.1.1 If Statement
 - 2.1.2 If- else Statement
 - 2.1.3 Nested if –else Statement
 - 2.1.4 Else if Ladder Statement
 - 2.1.5 Switch Statement

- 2.2 Loop Statement
 - 2.2.1 For Loop
 - 2.2.2 While Loop
 - 2.2.3 Do-while Loop
 - 2.2.4 Nested for Loop
- 2.3 Break, goto and Continue

UNIT III

3. Function in C	10 Lectures
-------------------------	--------------------

- 3.1 Functions in C
- 3.2 What is a function?
- 3.3 User defined functions
 - 3.3.1 Declaration
 - 3.3.2 Definition
 - 3.3.3 Function calling
- 3.4 Recursion

UNIT IV

4. Array and Structure	15 Lectures
-------------------------------	--------------------

- 4.1 Arrays
- 4.2 Array declaration, initialization
- 4.3 One dimensional Array
- 4.4 Two dimensional Array
- 4.5 Standard String library functions
- 4.6 Creating structures
- 4.7 Accessing structure members (dot Operator)
- 4.8 Unions

References:

1. Complete C Reference – Herbert Schildt (Thomson learning publications)
2. The C Programming language – Kernighan and Ritchie
3. Structured Programming approach using C – Forouzan and Gilberg,

Name of Course	Bachelor of Computer Application (BCA)
Semester	I
Name of Subject	Elective: Element of Statistics
Subject Code	BCA-104 A
Marks	75 Marks
Lectures	50 Lectures

Objective:

Interact ideas of random variable, frequency distribution, calculate and interact various measures in statistics.

Outcomes:

1. Explain the use of data collection & statistics.
2. Recognize, examine & interact the basic principles of describing and presenting data.

UNIT I

- | | |
|--|--------------------|
| 1. Introduction & Collection of Data | 10 Lectures |
| <ul style="list-style-type: none"> 1.1 Definition of Statistics 1.2 Importance of Statistics 1.3 Limitation of Statistics 1.4 Scope of Statistics (Computer Science, Industry, Economics) 1.5 Collection of data. | |

UNIT II

- | | |
|--|--------------------|
| 2. Measures of Central Tendencies & Variations | 15 Lectures |
| <ul style="list-style-type: none"> 2.1 Concept 2.2 Mean, formula, ungrouped & grouped data, numerical example, merits & demerits. 2.3 Mode, formula, ungrouped & grouped data numerical example, merits & demerits. 2.4 Median, formula, ungrouped & grouped data numerical example merits & demerits. 2.5 Standard deviation, formula, examples 2.6 Variance, formula, example. | |

UNIT III

- | | |
|--|--------------------|
| 3. Correlation & Regression | 10 Lectures |
| <ul style="list-style-type: none"> 3.1 Correlation, types, scatters diagram. 3.2 Karl person's coefficient of correlation. 3.3 Ungrouped data examples. 3.4 Regression ,regression lines 3.5 Example. | |

UNIT IV

4. Probability

15 Lectures

- 4.1 Permutation & combination
- 4.2 Sample space, event.
- 4.3 Definition of probability
- 4.4 Theorems of probability
 - a. $P(A)=1-P(A')$
 - b. $0 \leq P(A) \leq 1$
 - c. $P(A \cup B) = P(A) + P(B) - P(A \cap B)$
- 4.5 Numerical example.

Reference Books

1. Foundation of Mathematics statistics – S. C. Gupta & V. K. Kapoor
2. Statistical methods – S. C. Gupta.

Name of Course	Bachelor of Computer Application (BCA)
Semester	I
Name of Subject	Elective: Mathematical Technique in Computer Science (MTCS)
Subject Code	BCA-104 B
Marks	75 Marks
Lectures	50 Lectures

Objective:

Knowledge, skill & understanding develop understanding & fluency in mathematics through inquiry, exploring & connecting mathematical concept choosing & applying problem – solving skills.

Outcomes:

- Able to use standard mathematical techniques to solve elementary problem.
- Understand the nature of mathematical proof & be able to write clear & concise proof.

UNIT I

1. Set theory

10 Lectures

- 1.1 Definition & types of set
- 1.2 Venn diagram
- 1.3 Set operation
- 1.4 Properties of sets
- 1.5 Numerical example

UNIT II

2. Arithmetical ability

10 Lectures

- 2.1 Numbers, Arithmetic progression & Geometric progression
- 2.2 Divisibility tests
- 2.3 H.C.F. and L.C.M. of numbers
- 2.4 Time, Work and distance.

UNIT III

3. Matrices & determinants

15 Lectures

- 3.1 Matrix & types
- 3.2 Algebra & Matrices
- 3.3** Definition of determinants
- 3.4** Adjoint of matrix
- 3.5** Inverse of matrix

UNIT IV

4. Group theory

15 Lectures

- 4.1 Definition & types of groups
- 4.2 Degree of vertices
- 4.3 Isomorphism graph
- 4.4 Connected & disconnected group
- 4.5 Walks, paths & circuits
- 4.6 Binary tree

Reference Books

- 1) Discrete mathematics – C. L. Lui
- 2) Group theory- Nimkar & Solapurkar
- 3) Quantitative Aptitude - Dr. R. S. Aggarwal

Name of Course	Bachelor of Computer Application (BCA)
Semester	I
Name of Subject	Open Elective: University recognized MOOC (NPTEL / SWAYAM / others) OR Intra / Inter Departmental courses
Subject Code	BCA-105 A
Marks	75 Marks
Lectures	50 Lectures

OR

Name of Course	Bachelor of Computer Application (BCA)
Semester	I
Name of Subject	Open Elective: Applied English
Subject Code	BCA-105 B
Marks	75 Marks
Lectures	50 Lectures

Objectives of the Course:

1. To make a comprehensive use of English in day-to-day life.
2. To help Students develop the ability to learn and contribute critically.
3. To develop the writing skills of the students.
4. To help the students to understand the basic usages of English.

Course outcome: By the end of this course students should be able to:

1. Understand and demonstrate Basic English usages for their different purposes.
2. Clear entrance examination and aptitude tests.
3. Write various letters, reports required for professional life.

Unit I

- | | | |
|-----------|-------------------------------|--------------------|
| 1. | Grammar in use:- | 15 Lectures |
| | 1.1 Word Classes:- Open Close | |
| | 1.2 Phrase | |

Unit II

- | | | |
|-----------|--|--------------------|
| 2. | Basic Sentence Elements. | 10 Lectures |
| | 2.1 Phrase | |
| | 2.2 Classes:- Noun, Adjective, Adverb | |
| | 2.3 Sentence:- Simple, Compound, Complex | |

Unit III

- | | | |
|-----------|-------------------------------|--------------------|
| 3. | Transformation:- | 15 Lectures |
| | 3.1 Voice: Active & Passive. | |
| | 3.2 Speech: Direct & Indirect | |

Unit IV

- | | | |
|-----------|---|--------------------|
| 4. | Error Detaching/Spoofing the Crosse in the use | 10 Lectures |
| | 4.1 Determiners: | |
| | 4.2 Subject – Verb Agreement | |
| | 4.3 Tense: | |

References:-

- 1 Fundamental of Computer –5th& 6th Edition, P.K.Sinha, BPB Publication
- 2 Fundamental of Computer - V. Raja Raman, PHI Publication

OR

Name of Course	Bachelor of Computer Application (BCA)
Semester	I
Name of Subject	Open Elective: Business Communication
Subject Code	BCA-105 B
Marks	75 Marks
Lectures	50 Lectures

Objectives of the Course:

5. To make a comprehensive use of English in day-to-day life.
6. To help Students develop the ability to learn and contribute critically.
7. To develop the writing skills of the students.
8. To help the students to understand the basic usages of English.

Course outcome:

By the end of this course students should be able to:

4. Understand and demonstrate Basic English usages for their different purposes.
5. Clear entrance examination and aptitude tests.
6. Write various letters, reports required for professional life.

Unit I

- | | |
|---------------------------------|--------------------|
| 1. Basic English Grammar | 15 Lectures |
| 1.1 Noun | |
| 1.2 Verb | |
| 1.3 Adjective | |
| 1.4 Adverb | |

Unit II

- | | |
|--|--------------------|
| 2. Transformation of Sentences: | 10 Lectures |
| 2.1 Simple to Complex | |
| 2.2 Complex to Compound | |

Unit III

- | | |
|--------------------------|--------------------|
| 3. Writing Skills | 15 Lectures |
| 3.1 Essay Writing | |
| 3.2 Email Writing | |
| 3.3 Resume | |

Unit IV

- | | |
|----------------------------|--------------------|
| 4. Group Discussion | 10 Lectures |
| 4.1 Group Discussion: | |
| 4.2 Seminar Conference | |
| 4.3 Meeting | |
| 4.4 Interview | |

References:-

- 1 Fundamental of Computer –5th& 6th Edition, P.K.Sinha, BPB Publication
- 2 Fundamental of Computer - V. Raja Raman, PHI Publication

Name of Course	Bachelor of Computer Application (BCA)
Semester	I
Name of Subject	Lab-Course : C Programming
Subject Code	BCA-106
Marks	50 Marks

- 1) Demonstrate C programming Structure
- 2) Use of data types
- 3) Use of control statements
- 4) Use of looping statements
- 5) Demonstrate input output statements
- 6) Use of user define function
- 7) Demonstrate recursion function
- 8) Use of array
- 9) Demonstrate string library function
- 10) Demonstrate structure

Name of Course	Bachelor of Computer Application (BCA)
Semester	I
Name of Subject	Lab-Course : Office Automation
Subject Code	BCA-107
Marks	50 Marks

- 1) Study of Word Opening screen
- 2) Study of EXCEL Opening screen
- 3) Study of PowerPoint Opening screen
- 4) Study of Access Opening screen
- 5) Study of Find and Replace Dialog Box in Microsoft Word
- 6) Study of Page Setup Dialog Box
- 7) Study of Table Formatting
- 8) Study of Custom Dictionary & Go to Dialog Box
- 9) Study of mail merge
- 10) Study of creating charts.
- 11) Study of border and shading dialog box
- 12) Study of paragraph dialog box
- 13) Working of Formulas in Excel
- 14) Creating Presentation in Power Point
- 15) Creating database file in Access

Name of Course	Bachelor of Computer Application (BCA)
Semester	II
Name of Subject	Business Accounting with Tally
Subject Code	BCA-201
Marks	75 Marks
Lectures	50 Lectures

Objective:

1. To impart basic accounting knowledge
2. To understand the concept, process and importance of financial accounting.
3. To gain knowledge of business accounting
4. To help students to acquaint with application of Tally in the business world.

Outcome:

1. Students will able to do Accounting Using Tally

UNIT I

- | | |
|---|--------------------|
| 1. Introduction to Financial Accounting | 10 Lectures |
| 1.1 Introduction: Financial Accounting-definition and Scope, objectives of Financial Accounting, Accounting v/s Book Keeping Terms used in accounting, Users of accounting information and limitations of Financial Accounting. | |
| 1.2 Accounting Concepts, Types of Accounts, Accounting Principles or concepts , Mode of Accounting, Rules of Accounting, Double entry system of book keeping | |

UNIT II

- | | |
|--|--------------------|
| 2. Conceptual Frame work | 10 Lectures |
| 2.1 Accounting Standards in India-concept, objectives, benefits Accounting Policies | |
| 2.2 Accounting as a measurement discipline, valuation Principles, accounting estimates | |

UNIT III

- | | |
|--|--------------------|
| 3. Recording of transactions | 15 Lectures |
| 3.1 Company Creation, Alter, Backup & Restore, | |
| 3.2 Creating book of account, Group, subsidiary Group, Ledgers | |
| 3.3 Voucher system; Accounting Process, Journals, Subsidiary Books, Ledger, Cash Book, Bank Reconciliation Statement, Trial Balance. | |
| 3.4 Depreciation: Meaning, need & importance of depreciation, methods of charging depreciation.(WDV & SLM) | |
| 3.5 Stock Groups : Multiple Stock Groups , Stock Categories , Multiple Stock Categories , Units of Measure , Godowns ,Stock Items | |

UNIT IV

4. Preparation of final accounts**15 Lectures**

- 4.1 Preparation of Trading and Profit & Loss Account and Balance Sheet of sole **proprietary business**
- 4.2 Introduction to Company Final Accounts: Important provisions of Companies Act, 1956 in respect of preparation of Final Accounts.
- 4.3 Understanding of final accounts of a Company.

Recommended Books

- 1) Fundamentals of Accounting & Financial Analysis: By Anil Chowdhry (Pearson Education)
- 2) Financial accounting: By Jane Reimers (Pearson Education)
- 3) Accounting Made Easy By Rajesh Agarwal & R Srinivasan (Tata McGraw –Hill)
- 4) Mastering Tally ERP 9: Basic Accounts, Invoice, Inventory by [Asok K. Nadhani](#)(BPB Publication)

Name of Course	Bachelor of Computer Application (BCA)
Semester	II
Name of Subject	Organizational Behaviour
Subject Code	BCA-202
Marks	75 Marks
Lectures	50 Lectures

Learning Objectives:

To familiarize students with students with the basic concepts of organizational behaviour and to enhance their understanding the interaction of individual in the organization.

Learning Outcomes:

1. Students will become more self-aware and will have identifies areas of development for long term effectiveness.
2. Students will understand the role individuals play collectively to perform in the organization.

UNIT - I

- | | |
|---|--------------------|
| 1. Introduction of Organizational Behaviour | 10 Lectures |
| <ol style="list-style-type: none"> 1.1 Understanding OB 1.2 Nature 1.3 Scope 1.4 Models 1.5 Significance of OB 1.6 Emerging challenges in organizational Behaviour. | |

UNIT - II

- | | |
|--|--------------------|
| 2. Individual Behaviour & Motivation | 15 Lectures |
| <ol style="list-style-type: none"> 2.1 Individual Behaviour 2.2 Factors determining an Individual Behaviour 2.3 Personality 2.4 Determinant of Personality 2.5 Traits of Personality 2.6 Concept of Perception 2.7 Attitude and Values 2.8 Components of attitude 2.9 Motivation-Meaning 2.10 Importance of Motivation 2.11 Theories on Motivation 2.12 Maslow Theory 2.13 Herzberg theory 2.14 McGregor theory 2.15 McClelland theory. | |

UNIT - III

3. Group Behaviour & Leadership

15 Lectures

- 3.1 Group Behaviour-Nature of groups
- 3.2 Group Development
- 3.3 Types
- 3.4 Determinants of group behavior
- 3.5 Group Decision Making.
- 3.6 Leadership- Meaning
- 3.7 Importance of Leadership
- 3.8 Types of Leadership style
- 3.9 Qualities of good leader
- 3.10 Theories – contingency theory
- 3.11 Situational theory, Behavioural theory
- 3.12 Trait theory
- 3.13 Contemporary trends in Leadership.

UNIT - IV

4. Work Stress

10 Lectures

- 4.1 Meaning
- 4.2 Types of stress
- 4.3 Consequences of work stress
- 4.4 Causes of stress
- 4.5 Strategies for Managing work Stress

Reference books:

1. 'Organizational Behaviour' by K. Aswathappa. 13th Edition, Himalaya Publishing House.
2. 'Organizational Behaviour' by Luthans F, 7th Edition, McGraw Hill.
3. 'Essential of Organizational behaviour' by Robbins S. J., Text N.D.
4. 'Organizational behaviour' by John Schermerhorn & John Wiley, John Wiley & Sons.

Name of Course	Bachelor of Computer Application (BCA)
Semester	II
Name of Subject	Web Technology
Subject Code	BCA-203
Marks	75 Marks
Lectures	50 Lectures

Objectives:

- To improve the skill to create the static web page.
- To develop the ability to create the dynamic web pages.
- To enhance the ability of Insert a graphic within a web page.
- To improve the skills to Create, validate and publish a web page.

Outcome:

1. Be able to use HTML programming

UNIT – I

- | | |
|--|--------------------|
| 1. Introduction of HTML Documents | 15 Lectures |
| <ol style="list-style-type: none"> 1.1 Historical Roots of HTML, 1.2 Web page, Website, 1.3 Structure of HTML documents and Basic Tags: HTML, HEAD, TITLE, BODY 1.4 Formatting Tags: Paragraph Tags, List tags, HR Tag. 1.5 Headings Tags, PRE tag, DIV tag, SPAN tag. 1.6 FONT Tag, ADDRESS tag, MARQUEE tag. 1.7 Text-Level Elements & other different formatting tags. | |

UNIT – II

- | | |
|--|--------------------|
| 2. Technologies for Web Application | 10 Lectures |
| <ol style="list-style-type: none"> 2.1 WWW, Web browser. 2.2 U.R.L. concept. 2.3 Web server, Web protocols: HTTP, FTP, Telnet. 2.4 Hyperlink (Anchor) Tag & it's all attributes, 2.5 Creating Email Hyperlinks (using mail to anchor) 2.6 The Role of Images on the Web, tag & it's all attributes, Using Images as links. 2.7 Tables in HTML:- TABLE, TR, TH, TD tag with example, table with all Attributes | |

UNIT – III

3. Basic Interactivity and DHTML

15 Lectures

- 3.1 Frames in HTML: FRAMESET & FRAME tags & its attributes
- 3.2 Simple Frame Example. Forms in HTML: Introduction to forms.
- 3.3 FORM element & it's attributes (Action, Method (GET, POST), Name)
- 3.4 Form controls: Text Controls, Password Field, Multiline Text Input,
 - 1. Pull-Down Menus, Check Box, Radio Buttons, Scrolled List,
 - 2. Reset Button and Submit button.
- 3.5 Introduction of DHTML, Ramifications of DHTML
- 3.6 Rollover Buttons.

UNIT – IV

4. CSS and Java Script

10 Lectures

- 4.1 Introduction to Cascading Style Sheets
- 4.2 Embedded Styles, Inline Styles, Imported/External Styles.
- 4.3 Introduction of JAVA Script
- 4.4 Adding script to documents with example. Variables.
- 4.5 Input and Output statements of JAVA Script

Reference Books:

- 1. HTML The complete Reference (2nd Edition Thomas A Powel Tata McGraw Hill publication)
- 2. The complete Reference (HTML & XHTML)- 5th Edition Thomas A Powel Tata McGraw Hill publication

Name of Course	Bachelor of Computer Application (BCA)
Semester	II
Name of Subject	Elective : E-Commerce
Subject Code	BCA-204 A
Marks	75 Marks
Lectures	50 Lectures

Objective:

The objective of this course is to provide students with an overview and understanding of e-commerce with a specific emphasis on Internet Marketing.

Specifically, students will:

- Examine the ways that marketing can be done, and is being done, using the Internet.
- Gain an understanding of networked computers and the Internet. Students will learn to use the several Internet services such as the World Wide Web, Email. Use of these services for marketing purposes.

Outcome:

At the end of the course, the students is expected to realize the problems involved in designing and building e-commerce systems; understand the need to design EC systems that fully meet the requirements of the intended users; appreciate the need to ensure that the implementation of a design is adequately tested to ensure that the completed EC system meets the specifications.

UNIT I		
1.	Electronic Commerce	15 Lectures
	1.1 Electronic Commerce	
	1.2 Electronic Data Interchange (EDI)	
	1.3 E-commerce Types	
	1.4 E-Commerce and the world at large	
	1.5 Internet Connectivity	
	1.6 E-Commerce Case Studies	
	a. Intel	
	b. Amazon	
	1.7 E-Governance Case Studies	
	a. The US Government	
	b. The UK Government	

UNIT II

- | | | |
|-----------|-----------------------------|--------------------|
| 2. | PCS & Networking | 10 Lectures |
| 2.1 | Networking | |
| a. | Network Topologies | |
| 2.2 | Communication Media | |
| a. | VSAT | |
| b. | Access Schemes | |
| c. | VSAT Network Components | |

UNIT III

- | | | |
|-----------|--|--------------------|
| 3. | Electronic Data Interchange (EDI) | 10 Lectures |
| 3.1 | Electronic Data Interchange (EDI) | |
| 3.2 | Costs and Benefits | |
| 3.3 | Components of EDI Systems | |
| a. | EDI Software | |
| b. | Communication of EDI Messages | |
| 3.4 | EDI Implementation Issues | |

UNIT IV

- | | | |
|-----------|--|--------------------|
| 4. | Electronic Payment Systems & Internet Banking | 15 Lectures |
| 4.1 | Payment Gateway | |
| 4.2 | Internet Banking | |
| 4.3 | PayPal | |
| 4.4 | The Secure Electronic Transaction Protocol | |
| 4.5 | Electronic Cash | |
| 4.6 | Electronic Cheque | |
| 4.7 | Elements of Electronic Payments | |

Reference Book

1. E-Commerce II Edition by K K Bajaj & D Nag (TATA McGraw HILL)

Name of Course	Bachelor of Computer Application (BCA)
Semester	II
Name of Subject	Elective : Desktop Publishing (DTP)
Subject Code	BCA-204 B
Marks	75 Marks
Lectures	50 Lectures

Objective

This course will provide students the opportunity to learn to use basic features of desktop publishing software to create all types of publications: flyers, brochures, newsletters, and advertisements. Included in the course will be basic page layout and design principles and integrating text and graphics to create attractive business publications. The course will be taught with Adobe InDesign.

Outcomes

- Create personal documents such as business cards and resumes.
- Create business documents such as flyers and advertisements.
- Create a newsletter with graphics and draw objects.
- Create a course project illustrating Desktop Publishing techniques.

UNIT I

1. PAGEMAKER

15 Lectures

1. PAGEMAKER BASICS
 - 1.1 Starting PageMaker.
 - 1.2 PageMaker Window Elements.
 - 1.3 Viewing the Page.
 - 1.4 Toolbox.
 - 1.5 Using the Zoom Tool.

UNIT II

2. WORKING WITH A PUBLICATION

10 Lectures

2. Working With A Publication
 - 2.1 Opening a Publication.
 - 2.2 Creating a New Document.
 - 2.3 Setting the Margins.
 - 2.4 Setting the Page Size.
 - 2.5 Setting the Page Orientation.
 - 2.6 The Page Icons.
 - 2.7 Displaying Master Pages and Master Page Items.
 - 2.8 Inserting and Removing Pages, Inserting a Page, Removing a Page,
 - 2.9 Setting Page Numbers.
 - 2.10 Saving a New Document.

UNIT III

3. INTRODUCTION TO ADOBE PHOTOSHOP	10 Lectures
---	--------------------

3. Basic Features of Adobe Photoshop.

- 3.1 Various Page Measurements.
- 3.2 Use Of Various Tools..
- 3.3 Layer Concepts,
- 3.4 Basic Of Type :
- 3.5 Control Settings & Placements.

UNIT IV

4. IMAGE EDITING WITH ADOBE PHOTOSHOP	15 Lectures
--	--------------------

- 4.1 Images Contrast, Toning & Colour Correction.
- 4.2 Colour Conversions.
- 4.3 Cleaning, Repairing & Altering Images.
- 4.4 Shadow, Reflection & Dimension.
- 4.5 Creating Background, Patterns, Brushes, Texture & Frames.
- 4.6 Types Effects.
- 4.7 Freehand.

Reference Books:

- 1. Adobe PageMaker 7.0 Classroom in a Book by Adobe Creative Team
- 2. Adobe Photoshop 7.0 Classroom in a Book by Adobe Creative Team

Name of Course	Bachelor of Computer Application (BCA)
Semester	I
Name of Subject	Open Elective: University recognized MOOC (NPTEL / SWAYAM / others) OR Intra / Inter Departmental courses
Subject Code	BCA-205 A
Marks	75 Marks
Lectures	50 Lectures

OR

Name of Course	Bachelor of Computer Application (BCA)
Semester	II
Name of Subject	Open Elective: Functional English
Subject Code	BCA-205 B
Marks	75 Marks
Lectures	50 Lectures

Objectives of the Course:

1. A comprehensive use of English in day-to-day life.
2. To help Students develop the ability to learn and contribute critically.
3. To develop the writing skills of the students.
4. To help the students to understand the basic usages of English.

Course outcome:

By the end of this course students should be able to:

1. Understand and demonstrate Basic English usages for their different purposes.
2. Clear entrance examination and aptitude tests.
3. Write various letters, reports required for professional life.

Unit I

- | | | |
|-----------|---|--------------------|
| 1. | Business Correspondence:- | 15 Lectures |
| | 1.1 E-mail Writing: Invitation, job. | |
| | 1.2 Essay Writing: Types, Structures etc. | |
| | 1.3 Resume, Bio-data, and CV. | |

Unit II

- | | | |
|-----------|--|--------------------|
| 2. | Reading Comprehension: | 15 Lectures |
| | 2.1 Basic Approaches for understanding English | |
| | 2.2 Para Jumbles | |

Unit III

- | | | |
|-----------|-------------------------------------|--------------------|
| 3. | Practical Grammar: | 10 Lectures |
| | 3.1 Basic usages of Tenses | |
| | 3.2 Auxiliaries (Modal and Primary) | |
| | 3.3 Phrasal Verbs | |

Unit IV

4. Vocabulary**10 Lectures**

- 4.1 One word substitution
- 4.2 Idioms and Phrases
- 4.3 Synonyms and Antonyms
- 4.4 Spelling Mistakes

Reference Books -

- 1) Modern English Grammar-L. S. Deshpande (creative Publication)
- 2) A Practical English Grammar- A. J. Thomson. (Oxford University)
- 3) Macmillan Foundation English. - R. K. Dwivedi & a. Kumar (Mammalian India Ltd)
- 4) Writing English for You- G. Radhakrishna Pillai (Emerland Publication)
- 5) High School English Grammar & Composition - Wren & Martin (S. Chand)
- 6) Radiance Communication Skills- Editorial Board (SRTM University) Orient Black Swan.
- 7) English Grammer and Composition – Rejendra Pal and Prem Lata Suri (Sultan Chand and Sons)

OR

Name of Course	Bachelor of Computer Application (BCA)
Semester	II
Name of Subject	Open Elective: Corporate English
Subject Code	BCA-205 B
Marks	75 Marks
Lectures	50 Lectures

Objectives of the Course:

1. A comprehensive use of English in day-to-day life.
2. To help Students develop the ability to learn and contribute critically.
3. To develop the writing skills of the students.
4. To help the students to understand the basic usages of English.

Course outcome:

By the end of this course students should be able to:

1. Understand and demonstrate Basic English usages for their different purposes.
2. Clear entrance examination and aptitude tests.
3. Write various letters, reports required for professional life.

Unit I

- | | |
|---------------------------------------|--------------------|
| 1. Practical usage of English: | 10 Lectures |
| 1.1 Group Discussion | |
| 1.2 Seminar and Conference | |
| 1.3 Interview | |

Unit II

- | | |
|-------------------------------------|--------------------|
| 2. Business Communication: | 10 Lectures |
| 2.1 E-mail and Cover letter writing | |
| 2.2 Resume and CV | |
| 2.3 Report writing | |

Unit III

- | | |
|------------------------------|--------------------|
| 3. Functional English | 15 Lectures |
| 3.1 Articles | |
| 3.2 Prepositions | |
| 3.3 Conjunctions | |
| 4.4 Quantifiers | |

Unit IV

- | | |
|--------------------------------|--------------------|
| 4. Basic Structures: | 15 Lectures |
| 4.1 Phrases | |
| 4.2 Clauses | |
| 4.3 Sentence: Basic Structures | |

Reference Books -

- 1) Modern English Grammar -L. S. Deshpande (creative Publication)
- 2) A Practical English Grammar - A. J. Thomson. (Oxford University)
- 3) Developing Communication Skills.- Krishna Mohan & Meera Banerji (Macmillan India Ltd)
- 4) Macmillan Foundation English. - R. K. Dwivedi & a. Kumar (Mammalian India Ltd)
- 5) Writing English for You- G. Radhakrishna Pillai (Emerland Publication)
- 6) High School English Grammar & Composition - Wren & Martin (S. Chand)
- 7) Radiance Communication Skills- Editorial Board (SRTM University) Orient Black Swan.

Name of Course	Bachelor of Computer Application (BCA)
Semester	II
Name of Subject	Lab-Course : Tally.ERP 9
Subject Code	BCA-206
Marks	50 Marks

1. Create a company (Trading, Manufacturing, Trust etc..)
2. Select, Alter, delete a company.
3. Backup / Restore a company.
4. Accounting information
 - a. Create / update / delete Group / Group ledger
 - b. Create / update / delete ledger.
5. Inventory Information
 - a. Stock Group
 - b. Stock Item
 - c. Unit of Measure
6. Voucher entries
 - a. Accounting vouchers (Payment, Sale , Purchase, contra entry, Journal entry, Receipts, debit note, credit note)
 - b. Inventory vouchers
7. Display Reports
 - a. Financial details
 - i. Individual account
 - ii. Customized individual account
 - iii. Balance sheet / trading account
 - iv. Day book
 - v. Group wise
 - vi. Item wise
 - vii. Cash book
 - viii. Bank book
 - b. Inventory details
 - i. Stock summary
 - ii. Item wise
 - iii. Group wise
 - c. Exception Reports
8. Print
 - a. Accounting books
 - b. Inventory books
 - c. Day book
 - d. Multiple voucher printing
9. Company Features (shortcut key "F11")
 - a. Accounting features
 - b. Inventory Features
10. Configure a company (shortcut key "F12")

Name of Course	Bachelor of Computer Application (BCA)
Semester	II
Name of Subject	Lab-Course : Web Technology
Subject Code	BCA-207
Marks	50 Marks

1. Create a web page for describing the structure of HTML
2. Create a web page on text level elements
3. Create a web page for p, font, address, marquee tags.
4. Create a web page with anchor tag with all attributes.
5. Create a web page for img tag with all attributes.
6. Create a web page for table tag with all attributes.
7. Describe a frame tag with all attributes.
8. Create a web page for user registration form using all controls and attributes of form tag.
9. Create a web page for rollover button.
10. Create a web page for CSS of embedded styles
11. Create a web page for CSS of Inline styles.
12. Create a web page for CSS for imported/external styles.
13. Write a program for adding java script to documents in web page.
14. Write a program on input and output statements of java script.

॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

“Dnyanteerth”, Vishnupuri, Nanded - 431606 Maharashtra State (INDIA)

Established on 17th September 1994 – Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



ACADEMIC (1-BOARD OF STUDIES) SECTION

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संलग्नित महाविद्यालयांतील विज्ञान व तंत्रज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे CBCS Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ०८ जून २०१९ रोजी संपन्न झालेल्या ४४व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.११/४४-२०१९ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील विज्ञान व तंत्रज्ञान विद्याशाखेतील पदवी स्तरावरील प्रथम वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्यात येत आहेत.

- | | |
|---|---------------------------------------|
| 1. Agricultural Microbiology | 18. Dyes and Drugs |
| 2. Agrochemicals & Fertilizers | 19. Electronics |
| 3. Analytical Chemistry | 20. Environmental Science |
| 4. B.C.A. | 21. Fishery Science |
| 5. B.Voc. (Food Processing, Preservation and Storage) | 22. Food Science |
| 6. B.Voc. (Web Printing Technology) | 23. Geology |
| 7. Biochemistry | 24. Horticulture |
| 8. Bioinformatics | 25. Industrial Chemistry |
| 9. Biophysics | 26. Information Technology (Optional) |
| 10. Biotechnology (Vocational) | 27. Mathematics |
| 11. Biotechnonology | 28. Microbiology |
| 12. Botany | 29. Network Technology |
| 13. Chemistry | 30. Physics |
| 14. Computer Application (Optional) | 31. Software Engineering |
| 15. Computer Science (Optional) | 32. Statistics |
| 16. Computer Science | 33. Zoology |
| 17. Dairy Science | |

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,
विष्णुपुरी, नांदेड - ४३१ ६०६.
जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदवी-सीबीसीएस अभ्यासक्रम/
२०१९-२०/२९२

दिनांक : ०३.०७.२०१९.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) साहाय्यक कुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) उपकुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

स्वाक्षरित / -

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग

**Swami Ramanand Teerth Marathwada
University, Nanded
(NAAC Re-accredited with 'A' Grade)**



**Syllabus of
Bachelor of Computer Application (3 years)
(Revised CBCS pattern)**

Introduced from Academic Year 2019-2020

Bachelor of Computer Application

Bachelor of Computer Application (3years) program / degree is a specialized program in computer applications. It builds the student on studies in applied use of computers and to become competent in the current race and development of new computational sciences. The duration of the study is of six semesters, which is normally completed in three years.

CBCS pattern

The Bachelor of Computer Application program as per CBCS (Choice based credit system) pattern, in which choices are given to the students under open electives and subject electives. The students can choose open electives from the wide range of options to them.

Eligibility and Fees

The eligibility of a candidate to take admission to **Bachelor of Computer Application** program is as per the eligibility criteria fixed by the University. More details on admission procedure and fee structure can be seen from the prospectus of the college / institution as well as on website of the University.

Credit Pattern

Every course has corresponding grades marked in the syllabus structure. There are 24 credits per semester. A total of 144 credits are essential to complete this program successfully. The Grading pattern to evaluate the performance of a student is as per the University rules.

Every semester has a combination of Theory (core or elective) courses and Lab courses. Each theory course has 04 credits which are split as 03 external credits and 01 internal credit. The university shall conduct the end semester examination for 03 external credits. For theory internal credit, student has to appear for 01 class test (15 marks) and 01 assignment (10 marks). Every lab course has 02 credits which are split as 01 external credit and 01 internal credit. For lab internal credit, the student has to submit Laboratory Book (05 marks) and remaining 20 marks are for the Lab activities carried out by the student throughout the semester. For lab external credit, 20 marks are reserved for the examinational experiment and 05 marks are for the oral / viva examinations.

The open elective has 04 credits which are purely internal. If students are opting for MOOCs as open elective, then, there must be a Faculty designed as MOOCs course coordinator who shall supervise learning through MOOCs. This is intentionally needed as the MOOCs course coordinator shall verify the MOOC details including its duration, starting date, ending date, syllabus contents, mode of conduction, infrastructure feasibility, and financial feasibility during start of each semester. This is precautionary as the offering of the MOOCs through online platforms are time specific and there must be proper synchronization of semester duration with the MOOCs duration. Students must opt for either institutional / college level open elective or a course from University recognized MOOCs platforms as open electives.

The number of hours needed for completion of theory and practical courses as well as the passing rules, grading patterns, question paper pattern, number of students in practical batches, etc shall be as per the recommendations, norms, guidelines and policies of the UGC, State Government and the SRTM University currently operational. The course structure is supplemented with split up in units and minimum numbers of hours needed for completion of the course, wherever possible.

Under the CBCS pattern, students would graduate **Bachelor of Computer Application** with a minimum number of required credits which includes compulsory credits from core courses, open electives and program specific elective course. All students have to undergo lab / practical activities leading to specific credits and project development activity as a part of professional UG program.

1. **B.Sc. Computer Application Degree** / program would be of 144 Credits. Total credits per semester= 24
2. Each semester shall consist of three core courses, one elective course, one open elective course and two practical courses. Four theory courses (core+elective) = 16 Credits
3. Two practical / Lab courses= 4 Credits in total (02 credits each) , One Open elective= 4 credit
4. One Credit = 25 marks , Two Credits = 50 Marks, Four Credits = 100 Marks

PEO, PO and CO Mappings

1. **Program Name** : Bachelor of Computer Application
2. **Program Educational Objectives:** After completion of this program, the graduates / students would

PEO I :Technical Expertise	Implement fundamental domain knowledge of core courses for developing effective computing solutions by incorporating creativity and logical reasoning.
PEO II : Successful Career	Deliver professional services with updated technologies in Computer application based career.
PEO III :Hands on Technology and Professional experience	Develop leadership skills and incorporate ethics, team work with effective communication & time management in the profession.
PEO IV :Interdisciplinary and Life Long Learning	Undergo higher studies, certifications and research programs as per market needs.

3. **Program Outcome(s):** Students / graduates will be able to

PO1: Apply knowledge of mathematics, science and algorithm in solving Computer problems and applied use of banks.

PO2: Learn various custom software

PO3: Design component, or processes to meet the needs within realistic constraints.

PO4: Identify, formulate, and solve problems using computational temperaments.

PO5: Comprehend professional and ethical responsibility in computing profession.

PO6: Express effective communication skills.

PO7: Recognize the need for interdisciplinary, and an ability to engage in life-long learning.

PO8: Actual hands on technology to understand it's working.

PO9: Knowledge of contemporary issues and emerging developments in computing profession.

- PO10:** Utilize the techniques, skills and modern tools, for actual development process
PO11: Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings in actual development work
PO12: Research insights and conduct research in computing environment.

4. **Course Outcome(s):** Every individual course under this program has course objectives and course outcomes (CO). The course objectives rationally match with program educational objectives. The mapping of PEO, PO and CO is as illustrated below

5. **Mapping of PEO& PO and CO**

Program Educational Objectives	Thrust Area	Program Outcome	Course Outcome
PEO I	Technical Expertise	PO1,PO2,PO3,PO6	All core courses
PEO II	Successful Career	PO4,PO5,PO11,	All discipline specific electives courses
PEO III	Hands on Technology and Professional experience	PO8,PO10	All Lab courses
PEO IV	Interdisciplinary and Life Long Learning	PO7,PO9,PO12	All open electives and discipline specific electives

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
Choice Based Credit System (CBCS)
SEMESTER PATTERN
Faculty of Science & Technology
Under Graduate (UG) Program
Program: Bachelor of Computer Application w.e.f. AY 2019-2020

Year	Semester	Course category	Course Code	Course Title	Credits * *(split up will be given separately)		
First	First	Core Course	BCA-101	Fundamentals of Computer Science and Information Technology	04		
		Core Course	BCA-102	Office Automation	04		
		Core Course	BCA-103	Programming in C	04		
		Chose any one from the below Elective courses					
		Elective Subject	BCA-104 A	Element of Statistics	04		
			BCA-104 B	Mathematical Technique In Computer Science (MTCS)			
		Chose any one Open Elective courses					
		Open Elective	BCA-105 A	University recognized MOOC (NPTEL / SWAYAM / others) OR Intra / Inter Departmental courses OR	04		
			BCA-105 B	Applied English OR Business Communication			
		Lab / Practical	BCA-106	C Programming	02		
			BCA-107	Office Automation	02		
Total					24		
First	Second	Core Course	BCA-201	Business Accounting With Tally	04		
		Core Course	BCA-202	Organizational Behaviour	04		
		Core Course	BCA-203	Web Technology	04		
		Chose any one from the below Elective courses					
		Elective Subject	BCA-204A	E-Commerce	04		
			BCA-204B	Desktop Publishing (DTP)			
		Chose any one Open Elective courses					
		Open Elective	BCA-205A	University recognized MOOC (NPTEL / SWAYAM / others) OR Intra / Inter Departmental courses OR	04		
			BCA-205B	Functional English OR Corporate English			
		Lab / Practical	BCA-206	Tally.ERP 9	02		
			BCA-207	Web Technology	02		
Total					24		
For skill enhancement, if any, in all semesters, online course with internal credits is mandatory							

Name of Course	Bachelor of Computer Application (BCA)
Semester	I
Name of Subject	Fundamentals of Computer Science and Information Technology
Subject Code	BCA-101
Marks	75 Marks
Lectures	50 Lectures

Objectives

Through this paper Student should learn basic principles of computer. The paper is designed to aim at importing basic level of Computer.

Outcome

To learn Basic Function of Devices like I/O, HDD etc. To Understand the Fundamental of Software and Hardware. Understand the Concept of Operating System and Network.

Unit I

- | | | |
|-----------|---|--------------------|
| 1. | Introduction to Computer and History | 15 Lectures |
| | 1.1 Definition of Computer | |
| | 1.2 Basic Computer Organization | |
| | 1.3 Characteristics of Computer | |
| | 1.4 Generations of Computer | |
| | 1.5 Types of Computer:- Microcomputer, Minicomputer, Mainframe
Computer, Workstations, Client and Server | |

Unit II

- | | | |
|-----------|--|--------------------|
| 2. | Computer Peripherals & Memory | 10 Lectures |
| | 2.1 Input Devices :- Keyboard, Mouse, Trackball, Joystick, Light pen | |
| | 2.2 Output Devices :- Monitor, Printer, Projector, Biometric Devices | |
| | 2.3 Computer Memory :- RAM, ROM, Cache Memory | |

Unit III

- | | | |
|-----------|---|--------------------|
| 3. | Storage Devices and Operating System | 15 Lectures |
| | 3.1 Compact Disk, Digital Versatile Disk | |
| | 3.2 Hard Disk Drive | |
| | 3.3 USB Flash Drive | |
| | 3.4 Memory Card | |
| | 3.5 Definition of operating System | |
| | 3.6 Types of Operating System | |
| | 3.7 Disk Operating System | |
| | 3.8 Windows Operating System | |
| | 3.9 Linux Operating System | |

Unit IV

- | | |
|---|--------------------|
| 4. Introduction to Computer Network & Internet | 10 Lectures |
| 4.1 Definition of Network | |
| 4.2 Types of Network :- LAN,MAN,WAN | |
| 4.3 Data Transmission Modes | |
| 4.4 OSI Model | |
| 4.5 E-Mail | |
| 4.6 File Transfer Protocol | |
| 4.7 Web Browser | |
| 4.8 Types of Web Browser | |

References:-

- 1 Fundamental of Computer –5th& 6th Edition, P.K.Sinha, BPB Publication
- 2 Fundamental of Computer - V. Raja Raman, PHI Publication

Name of Course	Bachelor of Computer Application (BCA)
Semester	I
Name of Subject	Office Automation
Subject Code	BCA-102
Marks	75 Marks
Lectures	50 Lectures

Objectives

The main objective of Office Automation is to enhance and upgrade the existing system by increasing its efficiency and effectiveness. It will simplify the task and reduce the paper work means the software improves the working methods by replacing the existing manual system with the computer-based system.

Outcomes

After completion of this course student will be able to understand the computer software, hardware, made available to simplify and automate a variety of office operations such as data processing, data manipulating and data presentation with various application those are presents in Microsoft office tools packages.

Unit I

1.	Introduction to MS-Word.	20 Lectures
-----------	---------------------------------	--------------------

- 1.1 Word 2010 Basics: - Opening screen of MS-word,
- 1.2 Home menu- font tab,
- 1.3 Paragraph tab,
- 1.4 Styles tab
- 1.5 Editing options in MS-Word
- 1.6 Insert menu- table tool
- 1.7 Header and Footer tool
- 1.8 Mail-merge
- 1.9 Custom dictionary
- 1.10 Printing in MS-Word
- 1.11 Creating Index in MS-Word.

Unit II

2.	Working with MS-Excel.	10 Lectures
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- 2.1 Introduction to MS-Excel
- 2.2 Formatting cells
- 2.3 Formatting columns
- 2.4 Row height
- 2.5 Merging
- 2.6 Splitting columns and connecting the worksheets
- 2.7 Working with Formulas and Functions
- 2.8 Creating charts
- 2.9 Goal seek
- 2.10 Data validation
- 2.11 Conditional Formatting.

Unit III

- | | | |
|-----------|---|--------------------|
| 3. | Working with Microsoft power point. | 10 Lectures |
| 3.1 | Opening Screen of MS PowerPoint | |
| 3.2 | Creating a new presentation based on template | |
| 3.3 | Design template and blank presentation | |
| 3.4 | Slide Transition | |
| 3.5 | Custom Animation effects | |
| 3.6 | Slide show | |
| 3.7 | Adding audio and video on slides. | |

Unit IV

- | | | |
|-----------|---|--------------------|
| 4. | Introduction to MS-Access. | 10 Lectures |
| 4.1 | Opening screen of MS-Access | |
| 4.2 | Advantages and disadvantages of MS-Access | |
| 4.3 | Performing Queries | |
| 4.4 | Generating the report | |
| 4.5 | Creating the database in Access | |
| 4.6 | Creating forms and adding new records in MS-Access. | |

References:-

- 1. MS-DOS 6.22 by Russell A Stultz BPB publication.**

Name of Course	Bachelor of Computer Application (BCA)
Semester	I
Name of Subject	Programming in C
Subject Code	BCA-103
Marks	75 Marks
Lectures	50 Lectures

Programming in 'C' Objective

It is general purpose and procedure oriented programming language. In which we are able to develop OS and MAC operating system, application software and programming languages. Programming Language are also used to build students logic for programming.

Programming in 'C' Outcomes

To study of structure of programming languages, structure of c program.

To study different keyword for making program.

To develop programs using operators and control statement.

To describe an array, structure, union, string and functions.

Student are able to develop application software.

UNIT I

1. Introduction to Programming in C

15 Lectures

- 1.1 History
- 1.2 Compilers and Interpreters
- 1.3 Algorithms
- 1.4 Flowcharts
- 1.5 Structure of a C program
- 1.6 C Tokens
 - 1.6.1 Keywords
 - 1.6.2 Variables
 - 1.6.3 Primary Data types
 - 1.6.4 Operators
- 1.7 Formatted I/O Statement
- 1.8 Unformatted I/O Statement

UNIT II

2. Controlling Statement

10 Lectures

- 2.1 Decision Making Statement
 - 2.1.1 If Statement
 - 2.1.2 If- else Statement
 - 2.1.3 Nested if –else Statement
 - 2.1.4 Else if Ladder Statement
 - 2.1.5 Switch Statement

- 2.2 Loop Statement
 - 2.2.1 For Loop
 - 2.2.2 While Loop
 - 2.2.3 Do-while Loop
 - 2.2.4 Nested for Loop
- 2.3 Break, goto and Continue

UNIT III

3. Function in C	10 Lectures
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- 3.1 Functions in C
- 3.2 What is a function?
- 3.3 User defined functions
 - 3.3.1 Declaration
 - 3.3.2 Definition
 - 3.3.3 Function calling
- 3.4 Recursion

UNIT IV

4. Array and Structure	15 Lectures
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- 4.1 Arrays
- 4.2 Array declaration, initialization
- 4.3 One dimensional Array
- 4.4 Two dimensional Array
- 4.5 Standard String library functions
- 4.6 Creating structures
- 4.7 Accessing structure members (dot Operator)
- 4.8 Unions

References:

1. Complete C Reference – Herbert Schildt (Thomson learning publications)
2. The C Programming language – Kernighan and Ritchie
3. Structured Programming approach using C – Forouzan and Gilberg,

Name of Course	Bachelor of Computer Application (BCA)
Semester	I
Name of Subject	Elective: Element of Statistics
Subject Code	BCA-104 A
Marks	75 Marks
Lectures	50 Lectures

Objective:

Interact ideas of random variable, frequency distribution, calculate and interact various measures in statistics.

Outcomes:

1. Explain the use of data collection & statistics.
2. Recognize, examine & interact the basic principles of describing and presenting data.

UNIT I

- | | |
|--|--------------------|
| 1. Introduction & Collection of Data | 10 Lectures |
| <ul style="list-style-type: none"> 1.1 Definition of Statistics 1.2 Importance of Statistics 1.3 Limitation of Statistics 1.4 Scope of Statistics (Computer Science, Industry, Economics) 1.5 Collection of data. | |

UNIT II

- | | |
|--|--------------------|
| 2. Measures of Central Tendencies & Variations | 15 Lectures |
| <ul style="list-style-type: none"> 2.1 Concept 2.2 Mean, formula, ungrouped & grouped data, numerical example, merits & demerits. 2.3 Mode, formula, ungrouped & grouped data numerical example, merits & demerits. 2.4 Median, formula, ungrouped & grouped data numerical example merits & demerits. 2.5 Standard deviation, formula, examples 2.6 Variance, formula, example. | |

UNIT III

- | | |
|--|--------------------|
| 3. Correlation & Regression | 10 Lectures |
| <ul style="list-style-type: none"> 3.1 Correlation, types, scatters diagram. 3.2 Karl person's coefficient of correlation. 3.3 Ungrouped data examples. 3.4 Regression ,regression lines 3.5 Example. | |

UNIT IV

4. Probability

15 Lectures

- 4.1 Permutation & combination
- 4.2 Sample space, event.
- 4.3 Definition of probability
- 4.4 Theorems of probability
 - a. $P(A)=1-P(A')$
 - b. $0 \leq P(A) \leq 1$
 - c. $P(A \cup B) = P(A) + P(B) - P(A \cap B)$
- 4.5 Numerical example.

Reference Books

1. Foundation of Mathematics statistics – S. C. Gupta & V. K. Kapoor
2. Statistical methods – S. C. Gupta.

Name of Course	Bachelor of Computer Application (BCA)
Semester	I
Name of Subject	Elective: Mathematical Technique in Computer Science (MTCS)
Subject Code	BCA-104 B
Marks	75 Marks
Lectures	50 Lectures

Objective:

Knowledge, skill & understanding develop understanding & fluency in mathematics through inquiry, exploring & connecting mathematical concept choosing & applying problem – solving skills.

Outcomes:

- Able to use standard mathematical techniques to solve elementary problem.
- Understand the nature of mathematical proof & be able to write clear & concise proof.

UNIT I

1. Set theory

10 Lectures

- 1.1 Definition & types of set
- 1.2 Venn diagram
- 1.3 Set operation
- 1.4 Properties of sets
- 1.5 Numerical example

UNIT II

2. Arithmetical ability

10 Lectures

- 2.1 Numbers, Arithmetic progression & Geometric progression
- 2.2 Divisibility tests
- 2.3 H.C.F. and L.C.M. of numbers
- 2.4 Time, Work and distance.

UNIT III

3. Matrices & determinants

15 Lectures

- 3.1 Matrix & types
- 3.2 Algebra & Matrices
- 3.3** Definition of determinants
- 3.4** Adjoint of matrix
- 3.5** Inverse of matrix

UNIT IV

4. Group theory

15 Lectures

- 4.1 Definition & types of groups
- 4.2 Degree of vertices
- 4.3 Isomorphism graph
- 4.4 Connected & disconnected group
- 4.5 Walks, paths & circuits
- 4.6 Binary tree

Reference Books

- 1) Discrete mathematics – C. L. Lui
- 2) Group theory- Nimkar & Solapurkar
- 3) Quantitative Aptitude - Dr. R. S. Aggarwal

Name of Course	Bachelor of Computer Application (BCA)
Semester	I
Name of Subject	Open Elective: University recognized MOOC (NPTEL / SWAYAM / others) OR Intra / Inter Departmental courses
Subject Code	BCA-105 A
Marks	75 Marks
Lectures	50 Lectures

OR

Name of Course	Bachelor of Computer Application (BCA)
Semester	I
Name of Subject	Open Elective: Applied English
Subject Code	BCA-105 B
Marks	75 Marks
Lectures	50 Lectures

Objectives of the Course:

1. To make a comprehensive use of English in day-to-day life.
2. To help Students develop the ability to learn and contribute critically.
3. To develop the writing skills of the students.
4. To help the students to understand the basic usages of English.

Course outcome: By the end of this course students should be able to:

1. Understand and demonstrate Basic English usages for their different purposes.
2. Clear entrance examination and aptitude tests.
3. Write various letters, reports required for professional life.

Unit I

- | | | |
|-----------|-------------------------------|--------------------|
| 1. | Grammar in use:- | 15 Lectures |
| | 1.1 Word Classes:- Open Close | |
| | 1.2 Phrase | |

Unit II

- | | | |
|-----------|--|--------------------|
| 2. | Basic Sentence Elements. | 10 Lectures |
| | 2.1 Phrase | |
| | 2.2 Classes:- Noun, Adjective, Adverb | |
| | 2.3 Sentence:- Simple, Compound, Complex | |

Unit III

- | | | |
|-----------|-------------------------------|--------------------|
| 3. | Transformation:- | 15 Lectures |
| | 3.1 Voice: Active & Passive. | |
| | 3.2 Speech: Direct & Indirect | |

Unit IV

- | | | |
|-----------|---|--------------------|
| 4. | Error Detaching/Spoofing the Crosse in the use | 10 Lectures |
| | 4.1 Determiners: | |
| | 4.2 Subject – Verb Agreement | |
| | 4.3 Tense: | |

References:-

- 1 Fundamental of Computer –5th& 6th Edition, P.K.Sinha, BPB Publication
- 2 Fundamental of Computer - V. Raja Raman, PHI Publication

OR

Name of Course	Bachelor of Computer Application (BCA)
Semester	I
Name of Subject	Open Elective: Business Communication
Subject Code	BCA-105 B
Marks	75 Marks
Lectures	50 Lectures

Objectives of the Course:

5. To make a comprehensive use of English in day-to-day life.
6. To help Students develop the ability to learn and contribute critically.
7. To develop the writing skills of the students.
8. To help the students to understand the basic usages of English.

Course outcome:

By the end of this course students should be able to:

4. Understand and demonstrate Basic English usages for their different purposes.
5. Clear entrance examination and aptitude tests.
6. Write various letters, reports required for professional life.

Unit I

- | | |
|---------------------------------|--------------------|
| 1. Basic English Grammar | 15 Lectures |
| 1.1 Noun | |
| 1.2 Verb | |
| 1.3 Adjective | |
| 1.4 Adverb | |

Unit II

- | | |
|--|--------------------|
| 2. Transformation of Sentences: | 10 Lectures |
| 2.1 Simple to Complex | |
| 2.2 Complex to Compound | |

Unit III

- | | |
|--------------------------|--------------------|
| 3. Writing Skills | 15 Lectures |
| 3.1 Essay Writing | |
| 3.2 Email Writing | |
| 3.3 Resume | |

Unit IV

- | | |
|----------------------------|--------------------|
| 4. Group Discussion | 10 Lectures |
| 4.1 Group Discussion: | |
| 4.2 Seminar Conference | |
| 4.3 Meeting | |
| 4.4 Interview | |

References:-

- 1 Fundamental of Computer –5th& 6th Edition, P.K.Sinha, BPB Publication
- 2 Fundamental of Computer - V. Raja Raman, PHI Publication

Name of Course	Bachelor of Computer Application (BCA)
Semester	I
Name of Subject	Lab-Course : C Programming
Subject Code	BCA-106
Marks	50 Marks

- 1) Demonstrate C programming Structure
- 2) Use of data types
- 3) Use of control statements
- 4) Use of looping statements
- 5) Demonstrate input output statements
- 6) Use of user define function
- 7) Demonstrate recursion function
- 8) Use of array
- 9) Demonstrate string library function
- 10) Demonstrate structure

Name of Course	Bachelor of Computer Application (BCA)
Semester	I
Name of Subject	Lab-Course : Office Automation
Subject Code	BCA-107
Marks	50 Marks

- 1) Study of Word Opening screen
- 2) Study of EXCEL Opening screen
- 3) Study of PowerPoint Opening screen
- 4) Study of Access Opening screen
- 5) Study of Find and Replace Dialog Box in Microsoft Word
- 6) Study of Page Setup Dialog Box
- 7) Study of Table Formatting
- 8) Study of Custom Dictionary & Go to Dialog Box
- 9) Study of mail merge
- 10) Study of creating charts.
- 11) Study of border and shading dialog box
- 12) Study of paragraph dialog box
- 13) Working of Formulas in Excel
- 14) Creating Presentation in Power Point
- 15) Creating database file in Access

Name of Course	Bachelor of Computer Application (BCA)
Semester	II
Name of Subject	Business Accounting with Tally
Subject Code	BCA-201
Marks	75 Marks
Lectures	50 Lectures

Objective:

1. To impart basic accounting knowledge
2. To understand the concept, process and importance of financial accounting.
3. To gain knowledge of business accounting
4. To help students to acquaint with application of Tally in the business world.

Outcome:

1. Students will able to do Accounting Using Tally

UNIT I

1. Introduction to Financial Accounting 10 Lectures

- 1.1 Introduction: Financial Accounting-definition and Scope, objectives of Financial Accounting, Accounting v/s Book Keeping Terms used in accounting, Users of accounting information and limitations of Financial Accounting.
- 1.2 Accounting Concepts, Types of Accounts, Accounting Principles or concepts , Mode of Accounting, Rules of Accounting, Double entry system of book keeping

UNIT II

2. Conceptual Frame work 10 Lectures

- 2.1 Accounting Standards in India-concept, objectives, benefits Accounting Policies
- 2.2 Accounting as a measurement discipline, valuation Principles, accounting estimates

UNIT III

3. Recording of transactions 15 Lectures

- 3.1 Company Creation, Alter, Backup & Restore,
- 3.2 Creating book of account, Group, subsidiary Group, Ledgers
- 3.3 Voucher system; Accounting Process, Journals, Subsidiary Books, Ledger, Cash Book, Bank Reconciliation Statement, Trial Balance.
- 3.4 Depreciation: Meaning, need & importance of depreciation, methods of charging depreciation.(WDV & SLM)
- 3.5 Stock Groups : Multiple Stock Groups , Stock Categories , Multiple Stock Categories , Units of Measure , Godowns ,Stock Items

UNIT IV

4. Preparation of final accounts**15 Lectures**

- 4.1 Preparation of Trading and Profit & Loss Account and Balance Sheet of sole **proprietary business**
- 4.2 Introduction to Company Final Accounts: Important provisions of Companies Act, 1956 in respect of preparation of Final Accounts.
- 4.3 Understanding of final accounts of a Company.

Recommended Books

- 1) Fundamentals of Accounting & Financial Analysis: By Anil Chowdhry (Pearson Education)
- 2) Financial accounting: By Jane Reimers (Pearson Education)
- 3) Accounting Made Easy By Rajesh Agarwal & R Srinivasan (Tata McGraw –Hill)
- 4) Mastering Tally ERP 9: Basic Accounts, Invoice, Inventory by [Asok K. Nadhani](#)(BPB Publication)

Name of Course	Bachelor of Computer Application (BCA)
Semester	II
Name of Subject	Organizational Behaviour
Subject Code	BCA-202
Marks	75 Marks
Lectures	50 Lectures

Learning Objectives:

To familiarize students with students with the basic concepts of organizational behaviour and to enhance their understanding the interaction of individual in the organization.

Learning Outcomes:

1. Students will become more self-aware and will have identifies areas of development for long term effectiveness.
2. Students will understand the role individuals play collectively to perform in the organization.

UNIT - I

- | | |
|--|--------------------|
| 1. Introduction of Organizational Behaviour | 10 Lectures |
| 1.1 Understanding OB | |
| 1.2 Nature | |
| 1.3 Scope | |
| 1.4 Models | |
| 1.5 Significance of OB | |
| 1.6 Emerging challenges in organizational Behaviour. | |

UNIT - II

- | | |
|---|--------------------|
| 2. Individual Behaviour & Motivation | 15 Lectures |
| 2.1 Individual Behaviour | |
| 2.2 Factors determining an Individual Behaviour | |
| 2.3 Personality | |
| 2.4 Determinant of Personality | |
| 2.5 Traits of Personality | |
| 2.6 Concept of Perception | |
| 2.7 Attitude and Values | |
| 2.8 Components of attitude | |
| 2.9 Motivation-Meaning | |
| 2.10 Importance of Motivation | |
| 2.11 Theories on Motivation | |
| 2.12 Maslow Theory | |
| 2.13 Herzberg theory | |
| 2.14 McGregor theory | |
| 2.15 McClelland theory. | |

UNIT - III

3. Group Behaviour & Leadership

15 Lectures

- 3.1 Group Behaviour-Nature of groups
- 3.2 Group Development
- 3.3 Types
- 3.4 Determinants of group behavior
- 3.5 Group Decision Making.
- 3.6 Leadership- Meaning
- 3.7 Importance of Leadership
- 3.8 Types of Leadership style
- 3.9 Qualities of good leader
- 3.10 Theories – contingency theory
- 3.11 Situational theory, Behavioural theory
- 3.12 Trait theory
- 3.13 Contemporary trends in Leadership.

UNIT - IV

4. Work Stress

10 Lectures

- 4.1 Meaning
- 4.2 Types of stress
- 4.3 Consequences of work stress
- 4.4 Causes of stress
- 4.5 Strategies for Managing work Stress

Reference books:

1. 'Organizational Behaviour' by K. Aswathappa. 13th Edition, Himalaya Publishing House.
2. 'Organizational Behaviour' by Luthans F, 7th Edition, McGraw Hill.
3. 'Essential of Organizational behaviour' by Robbins S. J., Text N.D.
4. 'Organizational behaviour' by John Schermerhorn & John Wiley, John Wiley & Sons.

Name of Course	Bachelor of Computer Application (BCA)
Semester	II
Name of Subject	Web Technology
Subject Code	BCA-203
Marks	75 Marks
Lectures	50 Lectures

Objectives:

- To improve the skill to create the static web page.
- To develop the ability to create the dynamic web pages.
- To enhance the ability of Insert a graphic within a web page.
- To improve the skills to Create, validate and publish a web page.

Outcome:

1. Be able to use HTML programming

UNIT – I

- 1. Introduction of HTML Documents** **15 Lectures**
- 1.1 Historical Roots of HTML,
 - 1.2 Web page, Website,
 - 1.3 Structure of HTML documents and Basic Tags: HTML, HEAD, TITLE, BODY
 - 1.4 Formatting Tags: Paragraph Tags, List tags, HR Tag.
 - 1.5 Headings Tags, PRE tag, DIV tag, SPAN tag.
 - 1.6 FONT Tag, ADDRESS tag, MARQUEE tag.
 - 1.7 Text-Level Elements & other different formatting tags.

UNIT – II

- 2. Technologies for Web Application** **10 Lectures**
- 2.1 WWW, Web browser.
 - 2.2 U.R.L. concept.
 - 2.3 Web server, Web protocols: HTTP, FTP, Telnet.
 - 2.4 Hyperlink (Anchor) Tag & it's all attributes,
 - 2.5 Creating Email Hyperlinks (using mail to anchor)
 - 2.6 The Role of Images on the Web, tag & it's all attributes, Using Images as links.
 - 2.7 Tables in HTML:- TABLE, TR, TH, TD tag with example, table with all Attributes

UNIT – III

3. Basic Interactivity and DHTML

15 Lectures

- 3.1 Frames in HTML: FRAMESET & FRAME tags & its attributes
- 3.2 Simple Frame Example. Forms in HTML: Introduction to forms.
- 3.3 FORM element & it's attributes (Action, Method (GET, POST), Name)
- 3.4 Form controls: Text Controls, Password Field, Multiline Text Input,
 - 1. Pull-Down Menus, Check Box, Radio Buttons, Scrolled List,
 - 2. Reset Button and Submit button.
- 3.5 Introduction of DHTML, Ramifications of DHTML
- 3.6 Rollover Buttons.

UNIT – IV

4. CSS and Java Script

10 Lectures

- 4.1 Introduction to Cascading Style Sheets
- 4.2 Embedded Styles, Inline Styles, Imported/External Styles.
- 4.3 Introduction of JAVA Script
- 4.4 Adding script to documents with example. Variables.
- 4.5 Input and Output statements of JAVA Script

Reference Books:

- 1. HTML The complete Reference (2nd Edition Thomas A Powel Tata McGraw Hill publication)
- 2. The complete Reference (HTML & XHTML)- 5th Edition Thomas A Powel Tata McGraw Hill publication

Name of Course	Bachelor of Computer Application (BCA)
Semester	II
Name of Subject	Elective : E-Commerce
Subject Code	BCA-204 A
Marks	75 Marks
Lectures	50 Lectures

Objective:

The objective of this course is to provide students with an overview and understanding of e-commerce with a specific emphasis on Internet Marketing.

Specifically, students will:

- Examine the ways that marketing can be done, and is being done, using the Internet.
- Gain an understanding of networked computers and the Internet. Students will learn to use the several Internet services such as the World Wide Web, Email. Use of these services for marketing purposes.

Outcome:

At the end of the course, the students is expected to realize the problems involved in designing and building e-commerce systems; understand the need to design EC systems that fully meet the requirements of the intended users; appreciate the need to ensure that the implementation of a design is adequately tested to ensure that the completed EC system meets the specifications.

UNIT I

1.	Electronic Commerce	15 Lectures
	1.1 Electronic Commerce	
	1.2 Electronic Data Interchange (EDI)	
	1.3 E-commerce Types	
	1.4 E-Commerce and the world at large	
	1.5 Internet Connectivity	
	1.6 E-Commerce Case Studies	
	a. Intel	
	b. Amazon	
	1.7 E-Governance Case Studies	
	a. The US Government	
	b. The UK Government	

UNIT II

- 2. PCS & Networking** **10 Lectures**
- 2.1 Networking
 - a. Network Topologies
 - 2.2 Communication Media
 - a. VSAT
 - b. Access Schemes
 - c. VSAT Network Components

UNIT III

- 3. Electronic Data Interchange (EDI)** **10 Lectures**
- 3.1 Electronic Data Interchange (EDI)
 - 3.2 Costs and Benefits
 - 3.3 Components of EDI Systems
 - a. EDI Software
 - b. Communication of EDI Messages
 - 3.4 EDI Implementation Issues

UNIT IV

- 4. Electronic Payment Systems & Internet Banking** **15 Lectures**
- 4.1 Payment Gateway
 - 4.2 Internet Banking
 - 4.3 PayPal
 - 4.4 The Secure Electronic Transaction Protocol
 - 4.5 Electronic Cash
 - 4.6 Electronic Cheque
 - 4.7 Elements of Electronic Payments

Reference Book

1. E-Commerce II Edition by K K Bajaj & D Nag (TATA McGraw HILL)

Name of Course	Bachelor of Computer Application (BCA)
Semester	II
Name of Subject	Elective : Desktop Publishing (DTP)
Subject Code	BCA-204 B
Marks	75 Marks
Lectures	50 Lectures

Objective

This course will provide students the opportunity to learn to use basic features of desktop publishing software to create all types of publications: flyers, brochures, newsletters, and advertisements. Included in the course will be basic page layout and design principles and integrating text and graphics to create attractive business publications. The course will be taught with Adobe InDesign.

Outcomes

- Create personal documents such as business cards and resumes.
- Create business documents such as flyers and advertisements.
- Create a newsletter with graphics and draw objects.
- Create a course project illustrating Desktop Publishing techniques.

UNIT I

1. PAGEMAKER

15 Lectures

1. PAGEMAKER BASICS
 - 1.1 Starting PageMaker.
 - 1.2 PageMaker Window Elements.
 - 1.3 Viewing the Page.
 - 1.4 Toolbox.
 - 1.5 Using the Zoom Tool.

UNIT II

2. WORKING WITH A PUBLICATION

10 Lectures

2. Working With A Publication
 - 2.1 Opening a Publication.
 - 2.2 Creating a New Document.
 - 2.3 Setting the Margins.
 - 2.4 Setting the Page Size.
 - 2.5 Setting the Page Orientation.
 - 2.6 The Page Icons.
 - 2.7 Displaying Master Pages and Master Page Items.
 - 2.8 Inserting and Removing Pages, Inserting a Page, Removing a Page,
 - 2.9 Setting Page Numbers.
 - 2.10 Saving a New Document.

UNIT III

3. INTRODUCTION TO ADOBE PHOTOSHOP	10 Lectures
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3. Basic Features of Adobe Photoshop.

- 3.1 Various Page Measurements.
- 3.2 Use Of Various Tools..
- 3.3 Layer Concepts,
- 3.4 Basic Of Type :
- 3.5 Control Settings & Placements.

UNIT IV

4. IMAGE EDITING WITH ADOBE PHOTOSHOP	15 Lectures
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- 4.1 Images Contrast, Toning & Colour Correction.
- 4.2 Colour Conversions.
- 4.3 Cleaning, Repairing & Altering Images.
- 4.4 Shadow, Reflection & Dimension.
- 4.5 Creating Background, Patterns, Brushes, Texture & Frames.
- 4.6 Types Effects.
- 4.7 Freehand.

Reference Books:

- 1. Adobe PageMaker 7.0 Classroom in a Book by Adobe Creative Team
- 2. Adobe Photoshop 7.0 Classroom in a Book by Adobe Creative Team

Name of Course	Bachelor of Computer Application (BCA)
Semester	I
Name of Subject	Open Elective: University recognized MOOC (NPTEL / SWAYAM / others) OR Intra / Inter Departmental courses
Subject Code	BCA-205 A
Marks	75 Marks
Lectures	50 Lectures

OR

Name of Course	Bachelor of Computer Application (BCA)
Semester	II
Name of Subject	Open Elective: Functional English
Subject Code	BCA-205 B
Marks	75 Marks
Lectures	50 Lectures

Objectives of the Course:

1. A comprehensive use of English in day-to-day life.
2. To help Students develop the ability to learn and contribute critically.
3. To develop the writing skills of the students.
4. To help the students to understand the basic usages of English.

Course outcome:

By the end of this course students should be able to:

1. Understand and demonstrate Basic English usages for their different purposes.
2. Clear entrance examination and aptitude tests.
3. Write various letters, reports required for professional life.

Unit I

- | | | |
|-----------|---|--------------------|
| 1. | Business Correspondence:- | 15 Lectures |
| | 1.1 E-mail Writing: Invitation, job. | |
| | 1.2 Essay Writing: Types, Structures etc. | |
| | 1.3 Resume, Bio-data, and CV. | |

Unit II

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|-----------|--|--------------------|
| 2. | Reading Comprehension: | 15 Lectures |
| | 2.1 Basic Approaches for understanding English | |
| | 2.2 Para Jumbles | |

Unit III

- | | | |
|-----------|-------------------------------------|--------------------|
| 3. | Practical Grammar: | 10 Lectures |
| | 3.1 Basic usages of Tenses | |
| | 3.2 Auxiliaries (Modal and Primary) | |
| | 3.3 Phrasal Verbs | |

Unit IV

4. Vocabulary**10 Lectures**

- 4.1 One word substitution
- 4.2 Idioms and Phrases
- 4.3 Synonyms and Antonyms
- 4.4 Spelling Mistakes

Reference Books -

- 1) Modern English Grammar-L. S. Deshpande (creative Publication)
- 2) A Practical English Grammar- A. J. Thomson. (Oxford University)
- 3) Macmillan Foundation English. - R. K. Dwivedi & a. Kumar (Mammalian India Ltd)
- 4) Writing English for You- G. Radhakrishna Pillai (Emerland Publication)
- 5) High School English Grammar & Composition - Wren & Martin (S. Chand)
- 6) Radiance Communication Skills- Editorial Board (SRTM University) Orient Black Swan.
- 7) English Grammer and Composition – Rejendra Pal and Prem Lata Suri (Sultan Chand and Sons)

OR

Name of Course	Bachelor of Computer Application (BCA)
Semester	II
Name of Subject	Open Elective: Corporate English
Subject Code	BCA-205 B
Marks	75 Marks
Lectures	50 Lectures

Objectives of the Course:

1. A comprehensive use of English in day-to-day life.
2. To help Students develop the ability to learn and contribute critically.
3. To develop the writing skills of the students.
4. To help the students to understand the basic usages of English.

Course outcome:

By the end of this course students should be able to:

1. Understand and demonstrate Basic English usages for their different purposes.
2. Clear entrance examination and aptitude tests.
3. Write various letters, reports required for professional life.

Unit I		
1. Practical usage of English:		10 Lectures
1.1 Group Discussion		
1.2 Seminar and Conference		
1.3 Interview		
Unit II		
2. Business Communication:		10 Lectures
2.1 E-mail and Cover letter writing		
2.2 Resume and CV		
2.3 Report writing		
Unit III		
3. Functional English		15 Lectures
3.1 Articles		
3.2 Prepositions		
3.3 Conjunctions		
4.4 Quantifiers		
Unit IV		
4. Basic Structures:		15 Lectures
4.1 Phrases		
4.2 Clauses		
4.3 Sentence: Basic Structures		

Reference Books -

- 1) Modern English Grammar -L. S. Deshpande (creative Publication)
- 2) A Practical English Grammar - A. J. Thomson. (Oxford University)
- 3) Developing Communication Skills.- Krishna Mohan & Meera Banerji (Macmillan India Ltd)
- 4) Macmillan Foundation English. - R. K. Dwivedi & a. Kumar (Mammalian India Ltd)
- 5) Writing English for You- G. Radhakrishna Pillai (Emerland Publication)
- 6) High School English Grammar & Composition - Wren & Martin (S. Chand)
- 7) Radiance Communication Skills- Editorial Board (SRTM University) Orient Black Swan.

Name of Course	Bachelor of Computer Application (BCA)
Semester	II
Name of Subject	Lab-Course : Tally.ERP 9
Subject Code	BCA-206
Marks	50 Marks

1. Create a company (Trading, Manufacturing, Trust etc..)
2. Select, Alter, delete a company.
3. Backup / Restore a company.
4. Accounting information
 - a. Create / update / delete Group / Group ledger
 - b. Create / update / delete ledger.
5. Inventory Information
 - a. Stock Group
 - b. Stock Item
 - c. Unit of Measure
6. Voucher entries
 - a. Accounting vouchers (Payment, Sale , Purchase, contra entry, Journal entry, Receipts, debit note, credit note)
 - b. Inventory vouchers
7. Display Reports
 - a. Financial details
 - i. Individual account
 - ii. Customized individual account
 - iii. Balance sheet / trading account
 - iv. Day book
 - v. Group wise
 - vi. Item wise
 - vii. Cash book
 - viii. Bank book
 - b. Inventory details
 - i. Stock summary
 - ii. Item wise
 - iii. Group wise
 - c. Exception Reports
8. Print
 - a. Accounting books
 - b. Inventory books
 - c. Day book
 - d. Multiple voucher printing
9. Company Features (shortcut key "F11")
 - a. Accounting features
 - b. Inventory Features
10. Configure a company (shortcut key "F12")

Name of Course	Bachelor of Computer Application (BCA)
Semester	II
Name of Subject	Lab-Course : Web Technology
Subject Code	BCA-207
Marks	50 Marks

1. Create a web page for describing the structure of HTML
2. Create a web page on text level elements
3. Create a web page for p, font, address, marquee tags.
4. Create a web page with anchor tag with all attributes.
5. Create a web page for img tag with all attributes.
6. Create a web page for table tag with all attributes.
7. Describe a frame tag with all attributes.
8. Create a web page for user registration form using all controls and attributes of form tag.
9. Create a web page for rollover button.
10. Create a web page for CSS of embedded styles
11. Create a web page for CSS of Inline styles.
12. Create a web page for CSS for imported/external styles.
13. Write a program for adding java script to documents in web page.
14. Write a program on input and output statements of java script.



**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,
NANDED [M.S.]**

Choice Based Credit System (CBCS Pattern)

Faculty of Science and Technology

Syllabus of BCA SECOND YEAR

Under-Graduate (UG) Programs

Semester	Subject Code	Course Name	Credit		Total Credits
			Internal	External	
Semester – III	S3.AEC.1	1. Logical Reasoning	1	3	4
	S3.CC.2	2. Object Oriented Programming using C++	1	3	4
	S3.CC.3	3. Data Structure	1	3	4
	S3.CC.4	4. System Analysis and Design	1	3	4
	S3.CC.5	5. Elective 1) Multimedia and Applications 2) Data Communications 3) E-Commerce Technologies & Cyber Security	1	3	4
	S3.Lab 1	6. Lab Course – 1 (OOC)	-	2	2
	S3.Lab 2	7. Lab Course – 2 (Data Structure)	-	2	2
	S3.Lab 3	8. Lab Course – 3 (Elective)		2	2
	S3.SEC.1	9. 1. Desktop Publishing I 2. Web Development and PHP Programming 3. PC Installation.		2	2
		TOTAL			28
Semester – IV	S4. AEC.1	1) Numerical Aptitude	1	3	4
	S4.CC.2	2) Java Programming	1	3	4
	S4.CC.3	3) Relational Database Management System	1	3	4
	S5.CC.4	4) Operating System	1	3	4
	S5.CC.4	5) Elective 1) Computer Graphics. 2) Computer Architecture and Microprocessor 3) Event Driven Programming	1	3	4
	S4.Lab 1	6) Lab Course – 1 (Java Programming)	-	2	2
	S4.Lab 2	7) Lab Course – 2 (RDBMS)	-	2	2
	S4.Lab 3	8) Lab Course – 3 (Elective)		2	2
	S4.SEC-1	9) 1. Desktop Publishing II 2. XML Programming 3. System Administration and Maintenance		2	2
		TOTAL			28

Note: S3→Semester 3, S4→ Semester 4, AEC→ Ability Enhancement Course,
CC→ Core Course, SEC→ Skill Enhancement Course

Name of Course	BCA Second Year
Semester	III
Name of Subject	Logical Reasoning
Subject Code	S3.AEC.1

UNIT I

1	Series, Analogy and Classification		Lectures Required	Ref no
A	Series: Types of series, Alphabet series, Alpha numeric series, Examples on continues pattern series.		03	1
B	Analogy: Completing the Analogous Pair, Direct/Simple Analogy, Choosing the Analogous Pair, Double Analogy, Number analogy, Alphabet analogy, Correlation between letters/numbers.		02	1
C	Classification: Choosing the odd word, Choosing the odd numeral, Choosing the odd letter group.		02	1

References

Sr. No.	Name of the book	Author	Publication
1	A Modern Approach to Verbal & Non-Verbal Reasoning	Dr.R.S Aggarwal	S. Chand and Company Publications

UNIT II

2	Coding-Decoding		Lecturers Required	Ref no
A	Coding-Decoding: Letter coding, Direct Letter Coding, Number/Symbol Coding.		03	1
B	Substitution: Concept of substitution, Problem solving by using substitution.		01	1
C	Deciphering: Deciphering messages word codes, Deciphering numbers/symbol codes for messages.		02	1

References

Sr. No.	Name of the book	Author	Publication
1	A Modern Approach to Verbal & Non-Verbal Reasoning	Dr.R.S Aggarwal	S. Chand and Company Publications

UNIT III

3	Blood Relation		Lectures Required	Ref no
A	Introduction to relations		01	1
B	Concepts of deciphering relations based problems		02	1
C	Problems on deciphering jumbled up descriptions		01	1
D	Relation puzzle		02	1
E	Coded relations.		01	1

References

Sr. No.	Name of the book	Author	Publication
1	A Modern Approach to Verbal & Non-Verbal Reasoning	Dr.R.S Aggarwal	S. Chand and Company Publications

UNIT IV

4	Seating or Placing Arrangement		Lectures Required	Ref no
	A	Problems based on linear and circular based arrangement.	06	1

References

Sr. No.	Name of the book	Author	Publication
1	A Modern Approach to Verbal & Non-Verbal Reasoning	Dr.R.S Aggarwal	S. Chand and Company Publications

UNIT V

5	Direction Sense Test		Lectures Required	Ref no
	A	Introduction	01	1
	B	Problems based on angular changes in direction	02	1
	C	Problems on Shadows	01	1
	D	General Problems based on Pythagoras Theorem	01	1

References

Sr. No.	Name of the book	Author	Publication
1	A Modern Approach to Verbal & Non-Verbal Reasoning	Dr.R.S Aggarwal	S. Chand and Company Publications

UNIT VI

6	Syllogism and Data Sufficiency		Lectures Required	Ref no
	A	Syllogism: Introduction of logic, Rules of syllogism, Two statement problem, Three statement problem	07	1
	B	Data Sufficiency: Problems of Data sufficiency based on all Chapters.	03	1

References

Sr. No.	Name of the book	Author	Publication
1	A Modern Approach to Verbal & Non-Verbal Reasoning	Dr.R.S Aggarwal	S. Chand and Company Publications
2	Test of Reasoning	Edgar Thorpe	McGraw Hill Education
3	www.practiceaptitudetests.com		
4	www.allindiaexams.in		

Name of Course	BCA Second Year
Semester	III
Name of Subject	OBJECT ORIENTED CONCEPT USING C++
Subject Code	S3.CC.2

UNIT-I

1.	Introduction to OOP's	Lectures Required	Ref. No.
a)	Object Oriented Programming	02	1,2
b)	Basic concepts of OOPS	02	1,2
c)	Benefits of OOPs.	01	1,2

References:

Sr.No	Name of Book	Author	Publication
1.	OBJECT ORIENTED PROGRAMMING WITH C++	E. BALGURUSWAMI	BPB Publication
2.	C++ COMPLETE REFERENCE	H. SHEILD	BPB Publication

UNIT II

2.	Introduction to C++	Lectures Required	Ref. No.
a)	Tokens Identifiers Keywords	02	1,2
b)	Constant variable data types	02	1,2
c)	Scope Resolution Operator	01	1,2
d)	I/O statements Structure of C++ program	01	1,2
e)	Control statements Looping	01	1,2
f)	Type casting · Arrays, Pointer, References	02	1,2
g)	Structure and Unions	01	1,2
h)	Function: Call by value, Call by reference	01	1,2
i)	Inline function, Default arguments	01	1,2
j)	Function Overloading	01	1,2

References:

Sr.No	Name of Book	Author	Publication
1.	OBJECT ORIENTED PROGRAMMING WITH C++	E. BALGURUSWAMI	BPB Publication
2.	C++ COMPLETE REFERENCE	H. SHEILD	BPB Publication

UNIT III

3.	Class & Object	Lectures Required	Ref. No.
	a) Define Class	01	1,2
	b) Members Object	01	1,2
	c) Visibility modes	01	1,2
	d) Static members	02	1,2
	e) Pointer to members	01	1,2
	f) Pointer to objects	01	1,2
	g) Constructors & Destructors	01	1,2
	h) Friend Function	01	1,2

References:

Sr.No	Name of Book	Author	Publication
1.	OBJECT ORIENTED PROGRAMMING WITH C++	E. BALGURUSWAMI	BPB Publication
2.	C++ COMPLETE REFERENCE	H. SHEILD	BPB Publication

UNIT IV

4.	Operator Overloading & Type Conversions	Lectures Required	Ref. No.
	a) Concept of Operator Overloading	02	1,2
	b) Unary & Binary operator overloading	02	1,2
	c) Rules for Overloading	01	1,2
	d) Type conversions – Basic to Class	02	1,2
	e) Class to basic Class to Class	02	1,2

References:

Sr.No	Name of Book	Author	Publication
1.	OBJECT ORIENTED PROGRAMMING WITH C++	E. BALGURUSWAMI	BPB Publication
2.	C++ COMPLETE REFERENCE	H. SHEILD	BPB Publication

UNIT V

5.	Inheritance & Polymorphism	Lectures Required	Ref. No.
	a) Concept of Inheritance	01	1,2
	b) Types of Inheritance	01	1,2
	c) Polymorphism	01	1,2
	d) Virtual Base Classes	02	1,2
	e) Pointer to Derived class	01	1,2
	f) Virtual functions	01	1,2
	g) Rules for Virtual function	01	1,2
	h) Pure Virtual functions	01	1,2

References:

Sr.No	Name of Book	Author	Publication
1.	OBJECT ORIENTED PROGRAMMING WITH C++	E. BALGURUSWAMI	BPB Publication
2.	C++ COMPLETE REFERENCE	H. SHEILD	BPB Publication

UNIT VI

6.	C++ I/O System	Lectures Required	Ref. No.
a)	C++ Streams Stream classes	02	1,2
b)	Unformatted I/O operations	02	1,2
c)	Formatted I/O operations	01	1,2
d)	Manipulators	01	1,2
e)	Opening and closing file	01	1,2
f)	file modes	01	1,2
g)	Updating file	01	1,2

References:

Sr.No	Name of Book	Author	Publication
1.	OBJECT ORIENTED PROGRAMMING WITH C++	E. BALGURUSWAMI	BPB Publication
2.	C++ COMPLETE REFERENCE	H. SHEILD	BPB Publication

Name of Course	BCA Second Year
Semester	III Semester
Name of Subject	Data Structure
Subject Code	S3.CC.3 (Core Course)

UNIT I

1	Introduction	Lecturer Required	Ref no
	a Introduction	01	01
	b Basic terminology, elementary data organization	01	01
	c Data structure	01	01,02
	d Data structure operation	01	01
	e Algorithm complexity	01	01,02

References

Sr. No.	Name of the book	Author	Publication
1	Data Structure	Seymour Lipschutz	MC GRAW-HILL
2	Data Structures And Algorithms Concepts, Techniques And Applications	G.A.V. Pai	MC GRAW-HILL

UNIT II

2	Array, Records and Pointers	Lecturer Required	Ref no
	a Linear array	01	01
	b Representation of linear array in memory	01	01,02
	c Traversing linear array	01	01,02
	d Inserting and Deleting	02	01,02
	e Searching methods (Binary and linear search)	02	01,02
	f Sorting Method (selection sort, bubble sort and Insertion sort)	03	01,02

References

Sr. No.	Name of the book	Author	Publication
1	Data Structure,	Seymour Lipschutz	MCGRAW HILL
2	Data Structures Through 'C' Language	Samiram Chattopadhyay Debabrata Ghosh Dastidar, Matangini Chattopadhyay	BPB PUBLICATIONS

UNIT III

3	Linked List	Lecturer Required	Ref no
	a Introduction	01	01
	b Linked list	01	01
	c Representation of Linked list in memory	01	01
	d Searching a linked list	02	01
	e Memory allocation, Garbage collection	01	01
	f insertion & Deletion into Linked List	02	01
	g Two way Linked List	01	01

References

Sr. No.	Name of the book	Author	Publication
1	Data Structure,	Seymour Lipschutz	MCGRAW HILL

UNIT IV

4	Stack		Lecturer Required	Ref no
	a	Introduction	01	01
	b	stack	01	01,02
	c	Representation of stack (sequential & linked)	02	01,02
	d	Push & pop operation	01	01,02
	e	Arithmetic expression	01	01,02
	f	Infix, postfix & prefix	01	01,02
	g	Evaluation of postfix expression	01	01,02
	h	Recursion :factorial, Fibonacci	01	01

References

Sr. No.	Name of the book	Author	Publication
1	Data Structure	Seymour Lipchitz	MCGRAW HILL
2	DATA STRUCTURE USING C	M. TENENBAUM, YEDIDYAH LANGSAM,MOSHE J. AUGENSTEN	AARON PEARSON PRENTICE HALL

UNIT V

5	Queue		Lecturer Required	Ref no
	a	Introduction	01	01
	b	Queues	01	01
	c	Memory Representation of Queue. (sequential & linked)	02	01
	d	Insertion & Deletion on Queue.	02	01
	e	D-queue	01	01
	f	Priority Queue	01	01

References

Sr. No.	Name of the book	Author	Publication
1	Data Structure	Seymour Lipschutz	MCGRAW HILL

UNIT VI

6	Tree & graph		Lecturer Required	Ref no
	a	Binary Tree	01	01,02
	b	Types of Binary tree	01	01,02
	c	Traversing of binary tree(pre-order, post-order, in-order)	02	01,02
	d	Header Nodes, Threads	01	01,02
	e	Graph	01	01,02
	f	Representation of graph	01	01,02
	g	Operations on graph	02	01,02

References

Sr. No.	Name of the book	Author	Publication
1	Data Structure	Seymour Lipschutz	MCGRAW HILL
2	An Introduction to Data Structure With Application	JEANPAUL, TREMBLAY PAUL, G. SORENSON	TATA MCGRAW HILL

Name of Course	BCA Second Year
Semester	III Semester
Name of Subject	System Analysis & Design
Subject Code	S3.CC.4 (Core Course)

UNIT – I

1.	System Concept & System Development Life Cycle		Lecturers Required	Ref. No.
	a)	System Concept: Definition, Characteristics,	02	1, 2, 3, 4
	b)	Elements of system, Physical and abstract system,	02	1, 2, 3, 4
	c)	Open and closed system, man-made information systems.	02	1, 2, 3, 4
	d)	System Development Life Cycle: Various phases of system development,	03	1, 2, 3, 4
	e)	Considerations for system planning and control for system success.	02	1, 2, 3, 4
	f)	Role of system analyst	02	1, 2, 3, 4

References :

1)	Igor Hawryszkiewycz, “Introduction to System Analysis and Design”, 4th edition, Prentice-Hall.
2)	Jeffrey L. Whitten, and Lonnie D. Bentley, “Systems analysis and Design Methods”, 4th edition, Tata McGraw-Hill.
3)	Mark Lejk, and David Deeks, “An Introduction to System Analysis Techniques”, Prentice Hall.
4)	Don Yeates, Maura Shields and David Helmy, “System Analysis and Design”, Longman group limited, 1994.

UNIT – II

2.	System Planning		Lecturers Required	Ref. No.
	a)	Basis for planning in system analysis: Dimensions of Planning.	03	1, 2, 3, 4
	b)	Initial Investigation: Determining user’s requirements and analysis,	03	1, 2, 3, 4
	c)	fact finding process and techniques.	03	1, 2, 3, 4

References :

1)	Igor Hawryszkiewycz, “Introduction to System Analysis and Design”, 4th edition, Prentice-Hall.
2)	Jeffrey L. Whitten, and Lonnie D. Bentley, “Systems analysis and Design Methods”, 4th edition, Tata McGraw-Hill.
3)	Mark Lejk, and David Deeks, “An Introduction to System Analysis Techniques”, Prentice Hall.
4)	Don Yeates, Maura Shields and David Helmy, “System Analysis and Design”, Longman group limited, 1994.

UNIT – III

3.	Tools of structured Analysis		Lecturers Required	Ref. No.
	a)	Data Flow diagram	01	1, 2, 3, 4
	b)	Data dictionary	01	1, 2, 3, 4
	c)	IPO charts	01	1, 2, 3, 4
	d)	HIPO charts	01	1, 2, 3, 4
	e)	Gantt charts	01	1, 2, 3, 4
	f)	Pseudo codes	01	1, 2, 3, 4
	g)	Flow charts,	01	1, 2, 3, 4
	h)	Decision tree,	01	1, 2, 3, 4
	i)	Decision tables.	01	1, 2, 3, 4

References :

1)	Igor Hawryszkiewycz, “Introduction to System Analysis and Design”, 4th edition, Prentice-Hall.
2)	Jeffrey L. Whitten, and Lonnie D. Bentley, “Systems analysis and Design Methods”, 4th edition, Tata McGraw-Hill.
3)	Mark Lejk, and David Deeks, “An Introduction to System Analysis Techniques”, Prentice Hall.
4)	Don Yeates, Maura Shields and David Helmy, “System Analysis and Design”, Longman group limited, 1994.

UNIT – IV

4.	Feasibility study & Cost-Benefit Analysis		Lecturers Required	Ref. No.
	a)	Feasibility study: Technical	02	1, 2, 3, 4
	b)	Operational & Economic Feasibilities.	02	1, 2, 3, 4
	c)	Cost/Benefit Analysis introduction.	02	1, 2, 3, 4
	d)	Data analysis cost and benefit analysis of a system.	03	1, 2, 3, 4

References:

1)	Igor Hawryszkiewycz, “Introduction to System Analysis and Design”, 4th edition, Prentice-Hall.
2)	Jeffrey L. Whitten, and Lonnie D. Bentley, “Systems analysis and Design Methods”, 4th edition, Tata McGraw-Hill.
3)	Mark Lejk, and David Deeks, “An Introduction to System Analysis Techniques”, Prentice Hall.
4)	Don Yeates, Maura Shields and David Helmy, “System Analysis and Design”, Longman group limited, 1994.

UNIT– V

5.	Form and database design		Lecturers Required	Ref. No.
	a)	Input/ Output and Form Design, File Organization and database design: Introduction to files and database	03	1, 2, 3, 4
	b)	File structures and organization,	02	1, 2, 3, 4
	c)	Objectives of database design,	02	1, 2, 3, 4
	d)	Logical and physical view of data.	02	1, 2, 3, 4

References:

1)	Igor Hawryszkiewycz, "Introduction to System Analysis and Design", 4th edition, Prentice-Hall.
2)	Jeffrey L. Whitten, and Lonnie D. Bentley, "Systems analysis and Design Methods", 4th edition, Tata McGraw-Hill.
3)	Mark Lejk, and David Deeks, "An Introduction to System Analysis Techniques", Prentice Hall.
4)	Don Yeates, Maura Shields and David Helmy, "System Analysis and Design", Longman group limited, 1994.

UNIT – VI

6.	System implementation	Lecturers Required	Ref. No.
	a) System testing: Introduction,	01	1, 2, 3, 4
	b) objectives of testing,	01	1, 2, 3, 4
	c) test planning,	01	1, 2, 3, 4
	d) testing techniques.	02	1, 2, 3, 4
	e) Quality assurance: Goal of quality assurance,	02	1, 2, 3, 4
	f) levels of quality assurance,	02	1, 2, 3, 4
	g) System implementation and software maintenance: primary activities in maintenance,	02	1, 2, 3, 4
	h) Reducing maintenance costs.	02	1, 2, 3, 4

References :

1)	Igor Hawryszkiewycz, "Introduction to System Analysis and Design", 4th edition, Prentice-Hall.
2)	Jeffrey L. Whitten, and Lonnie D. Bentley, "Systems analysis and Design Methods", 4th edition, Tata McGraw-Hill.
3)	Mark Lejk, and David Deeks, "An Introduction to System Analysis Techniques", Prentice Hall.
4)	Don Yeates, Maura Shields and David Helmy, "System Analysis and Design", Longman group limited, 1994.

Name of Course	BCA Second Year
Semester	III
Name of Subject	Multimedia and Applications
Subject Code	S3.5 Elective (I)

UNIT –I

1.	Introduction	Lecturers Required	Ref. No.
1.1	Definition of Multimedia elements	1	1
1.2	Multimedia Elements	1	1
1.3	Multimedia Applications	1	1
1.4	Global structure of Multimedia	1	1

References:

Sr. No.	Name of the Book	Author	Publication
1	Multimedia System Design	By P. K. ANDLEIGH, KIRAN THAKRAR	Dhanpat Rai Publications

UNIT –II

2.	Data Compression	Lecturers Required	Ref. No.
2.1	Storage space	1	1
2.2	Coding requirements	2	1
2.3	Basic compression techniques (Run length& Huffman encoding)	2	1
2.4	Introduction to following compression techniques: JPEG, MPEG	2	1

References:

Sr. No.	Name of the Book	Author	Publication
1	Multimedia : Computing Communications & Applications	By Ralf Steinmetz And Klara Nehrstedt	Pearson Education

UNIT –III

3.	Optical Storage Media & Retrieval Technologies	Lecturers Required	Ref. No.
3.1	Basic Technology	1	1
3.2	Video Disk & other WORMS	2	1
3.3	CD-ROM and Multimedia Highway	2	1
3.4	DVD- ROM	1	1

References:

Sr. No.	Name of the Book	Author	Publication
1	Multimedia : Computing Communications & Applications	By Ralf Steinmetz And Klara Nehrstedt	Pearson Education

Unit –IV

4.	Sound / Audio	Lecturers Required	Ref. No.
4.1	Basic Concept of Sound	1	1
4.2	MIDI	2	1
4.3	Digital audio	2	1
4.4	Audio file formats	1	1

References:

Sr. No.	Name of the Book	Author	Publication
1	Multimedia : Computing Communications & Applications	By Ralf Steinmetz And Klara Nehrstedt	Pearson Education

Unit –V

5.	Image And Graphics	Lecturers Required	Ref. No.
5.1	Making Still Images : BITMAPS , Vector Drawing	3	1
5.2	Colors	1	1
5.3	□ Image Formats	1	1
5.4	□ Graphics Formats	1	1
5.5	□ Image File Formats: BMP, JPEG, TIFF, PNG.	4	1

References:

Sr. No.	Name of the Book	Author	Publication
1	Multimedia : Computing Communications & Applications	By Ralf Steinmetz And Klara Nehrstedt	Pearson Education

Unit –VI

6.	Video& Animation	Lecturers Required	Ref. No.
6.1	Basic concepts (Using Video)	1	1
6.2	Broadcast Video Standards	1	1
6.3	Television (Conventional systems, Enhanced definition systems, High Definition system)	2	1
6.4	Computer based Animation	1	1

References:

Sr. No.	Name of the Book	Author	Publication
1	Multimedia : Computing Communications & Applications	By Ralf Steinmetz And Klara Nehrstedt	Pearson Education

Name of Course	BCA Second Year
Semester	III Semester
Name of Subject	Data Communication
Subject Code	S3.5 Elective (II)

UNIT – I

1.	Data Communication Concepts	Lectures	Ref. No.
	a) A Communication model	02	1, 2
	b) Data Communication Task	01	1, 2
	c) Networks:- LAN, WAN	03	1, 2
	d) Wireless LAN Client Server model Peer to Peer Network Analog Signal Digital Signal	05	1, 2

References:

Sr. No.	Name of the Book	Author	Publication
1.	Data and Computer Communications	William Stallings	Pearson Education India
2.	Local Area Network	Gerd Keiser	Tata McGraw-Hill

UNIT – II

2.	Protocol Architecture / Multiplexing	Lecturers	Ref. No.
	a) The need for protocol architecture Network architecture OSI Model TCP/IP Reference Model	04	1, 2
	b) Multiplexing FDM TDM	03	1, 2
	c) Connection Oriented & Connectionless	01	1, 2

References:

Sr. No.	Name of the Book	Author	Publication
1.	Data and Computer Communications	William Stallings	Pearson Education India
2.	Computer Networks	Andrew S. Tanenbaum	Prentice Hall of India

UNIT III

3.	Transmission Media and Network Topology		Lecturers	Ref. No.
	a)	Transmission Media- Magnetic media. Twisted Pair Coaxial cable Fiber optics	04	1, 2
	b)	Topologies with advantages & disadvantages:-Bus, Ring, Star, Tree, Mesh.	03	1, 2
	c)	Infrared. Microwave.	01	1, 2

References:

Sr. No.	Name of the Book	Author	Publication
1.	Local Area Network	Gerd Keiser	Tata McGraw-Hill
2.	Computer Networks	Andrew S. Tanenbaum	Prentice Hall of India

UNIT IV

4.	Ethernet & Circuit Switching and Packet Switching:		Lecturers Required	Ref. No.
	a)	Switching Circuit Switching Packet Switching Message Switching	04	1, 2
	b)	Ethernet Overview of Ethernet	03	1, 2
	c)	CSMA/CD	01	1, 2

References:

Sr. No.	Name of the Book	Author	Publication
1.	Data and Computer Communications	William Stallings	Pearson Education India
2.	Computer Networks	Andrew S. Tanenbaum	Prentice Hall of India

Unit V

	Network Devices & Protocol		Lecturers	Ref. No.
	a)	Network Devices Hub, Switch , Repeaters Router , Gateway ,Bridge	04	1, 2
	b)	Protocol: FTP, HTTP, SMTP , DNS	03	1, 2
	c)	IP address	01	1, 2

References:

Sr. No.	Name of the Book	Author	Publication
1.	Local Area Network	Gerd Keiser	Tata McGraw-Hill
2.	Computer Networks	Andrew S. Tanenbaum	Prentice Hall of India

UNIT-VI

6.	Internet & Other Technologies	Lecture rs	Ref. No.
	a) Internet Internet & Intranet Internet Service Providers E-Mail	04	1, 2
	b) ISDN, Token Ring FDDI	03	1, 2

References:

Sr. No.	Name of the Book	Author	Publication
1.	Local Area Network	Gerd Keiser	Tata McGraw-Hill
2.	Computer Networks	Andrew S. Tanenbaum	Prentice Hall of India

Name of Course	BCA Second Year
Semester	III Semester
Name of Subject	E-Commerce Technologies and Cyber Security
Subject Code	S3.5 Elective (III)

UNIT I

1	E-Commerce	Lecture Required	Ref.No
	a) Electronic Commerce-Introduction.	2	1
	b) E-Commerce Types.	2	1
	c) Value Added Networks.	2	1
	d) Electronic commerce over the Internet.		1

References:-

Name of Book	Author	Publication
E-commerce (The cutting Edge of Business)	Kamlesh K. bajaj and Debjani Nag	Tata McGraw Hill publication

UNIT II

2	Internet & Bandwidth Issues	Lecture Required	Ref.No
	a) Bandwidth issues.	2	1
	b) Technology issues for Internet: ATM Technology, ATM/fiber optic		1
	c) Internet-Introduction		1
	d) Internet Engineering Task Force.	2	1
	e) Internet Architecture Board.	1	1
	f) Internet Communication Protocols	2	1
	g) Internet Search Tools: Telnet, FTP, World Wide Web. Gopher, HTTP.	2	1
	h) Concerns about Internet.		

References:-

Name of Book	Author	Publication
E-commerce (The cutting Edge of Business)	Kamlesh K. bajaj and Debjani Nag	Tata McGraw Hill publication

UNIT III

3	Electronic Data Interchange	Lecture Required	Ref.No
	a) EDI introduction	2	1
	b) Benefit: Cost & Benefits of EDI.	1	1
	Components of EDI Systems: EDI Standards, EDI Softwares, EDI Communication Networks	2	1

References:-

Name of Book	Author	Publication
E-commerce (The cutting Edge of Business)	Kamlesh K. bajaj and Debjani Nag	Tata McGraw Hill publication

UNIT IV

4	Identification & Tracking tools for E-commerce	Lecture Required	Ref.No
	a) EAN system, EAN/COM,	2	1

	b)	Article numbering system, Bar-coding, Serial Shipping Container Code & EAN label	2	1
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References:-

Name of Book	Author	Publication
E-commerce (The cutting Edge of Business)	Kamlesh K. bajaj and Debjani Nag	Tata McGraw Hill publication

UNIT V

5	Cyber security		Lecture Required	Ref.No
	a)	Cyber Attack	2	1
	b)	Hacking	3	1
	c)	Secure Socket Layer protocols.	1	1
	d)	Security concerns of Internet: confidentiality, Integrity, Availability,Authenticity/Non-repudiability, Auditability.	2	1
	e)	Security Solutions: Cryptography based-Symmetric & Asymmetriccryptosystem, Digital Signatures.	1	1
	f)	The IT Act. 2000.	2	1

References:-

Name of Book	Author	Publication
E-commerce (The cutting Edge of Business)	Kamlesh K. bajaj and Debjani Nag	Tata McGraw Hill publication

UNIT VI

6	Electronic Payment systems & Internet Banking		Lecture Required	Ref.No
	a)	Electronic payment systems (payment gateway, Internet banking	2	1
	b)	Secure Electronic Transaction (SET) protocol.	1	1
	c)	E-cash	2	1
	d)	Electronic Cheque	2	1
	e)	Elements of Electronic payments	2	1

References

Name of Book	Author	Publication
E-commerce (The cutting Edge of Business)	Kamlesh K. bajaj and Debjani Nag	Tata McGraw Hill publication

Name of Course	BCA Second Year
Semester	III Semester
Name of Subject	Lab Course – 1 (OOC)
Subject code	S3.Lab1

List of Practical's

- 1) Simple C++ program
- 2) Program on data types
- 3) Program for looping and branching statement
- 4) Program for Reference variable
- 5) Program for function overloading
- 6) Program for friend function and inline function
- 7) Program for static data member and function
- 8) Program for operator overloading
- 9) Program for Inheritance
- 10) Program for virtual function
- 11) Program for File handling
- 12) Program for Template classes
- 13) Program for File IO to read Entire File.
- 14) Program on Virtual Classes
- 15) Program on Template Function

Name of Course	BCA Second Year
Semester	III Semester
Name of Subject	Lab Course – 2 (Data Structure)
Subject code	S3.Lab2

Sr.No	Title of program	Required Hour
1	Write a program traversing the array.	1
2	Write a program to insert the element into array at given position.	2
3	Write a program to delete the element from array.	1
4	Write program to search an element from array.	1
5	Write a program to find element in the array using binary search.	2
6	Write a program to sort the array using for bubble sort.	1
7	Write a program to perform insertion sort on array.	2
8	Write a program to implement the selection sort on array.	2
9	Write a program to implement stack using linked list.	1
10	Write a program to implement stack using array.	1
11	Write a program to perform push & pop operations on stack.	2
12	Write a program to convert an infix expression into postfix expression.	2
13	Write a program to evaluation of postfix expression using stack.	2
14	Write a program to implement queue using linked list.	1
15	Write a program to implement queue using array.	1
16	Write a program to perform queue operation	2
17	Write a program to create a linked list & performing traversing operation.	2
18	Write a program for insertion & deletion of linked list.	2
19	Write a program to simulate tree traversing techniques.	2

References

1	Data structures through C language	samiran chattopadhyay Debabrata Ghosh Dastidar matangini Chattopadhyay	BPB publication s
2	Data Structures Using C & C++	Yedidyah Langsam Moshe j. Augenstein Aaron M. Tenenbaum	PHI Learning
3	Data Structures, algorithms and applications In C++	Sartaj Sahni	MC Graw-Hill

Name of Course	BCA Second Year
Semester	III Semester
Name of Subject	Lab Course – 3 (Multimedia and Applications)
Subject code	S3.Lab3 –(Elective –I)

Practical NO.	Name of Practical
1	Study of Multimedia Elements
2	Study of Opening Screen of Power Point
3	Study of Power Point Presentation of MM Elements
4	Study of Opening Screen of Adobe Photoshop
5	Study to change back ground color of image in Adobe Photoshop.
6	Study to Effect to back ground image in Adobe Photoshop.
7	Study to clear underexposed in Adobe Photoshop.
8	Study to apply canvas effect in Adobe Photoshop.
9	Study to enlarge your image with minimal visible Loss.
10	Study to create user defined brush in Adobe Photoshop.
11	Study to apply sketch effect in Adobe Photoshop.
12	Study to apply wind effect to text in Adobe Photoshop.
14	Study to create bouncing ball in Macromedia Flash.
15	Study to create Rolling ball in Macromedia Flash.

Name of Course	BCA Second Year
Semester	III Semester
Name of Subject	Lab Course – 3 (Data Communications)
Subject code	S3.Lab3 –(Elective –II)

Sr. No.	Title of program	Require Hours
1	Lab: Design LAN for workgroup	2
2	Cable Coding (Straight Over, Crossover)	2
3	Study of Network Devices.	2
4	Study of Resource Sharing	2
5	Study of IP addressing	2
6	Study of Assigning IP address	2
7	Study of group policy	2
8	Creating an share Folder	2
9	Study of Remote desktop configuration	2
10	Study of Network related command	2
11	Study of Internet	2
12	Study of E-mail	2

References:

Sr.No	Book	Author	Publication
1	Data and Computer Communications	William Stallings	Pearson Education India
2	Local Area Network	Gerd Keiser	Tata McGraw-Hill
3	Computer Networks	Andrew S. Tanenbaum	Prentice Hall of India

Name of Course	BCA Second Year
Semester	III Semester
Name of Subject	Lab Course – 3 (E-Commerce Technologies & Cyber Security)
Subject code	S3.Lab3 –(Elective –III)

Sr. No.	Title of program	Require Hours
1	Study of E-Commerce Types	1
2	Study of Electronic Commerce over the Internet	1
3	Study of Creating online Purchasing account on online shopping Websites.	1
4	Study of how to book a product with COD option.	1
5	Study of how to book a product with online Payment.	1
6	Study of Purchasing a product with internet search tools.	2
7	Study of Generating a Bar-Code by using Corel Draw.	1
8	Study of to Prevent from Cyber Attacks.	2
9	Study of Ethical hacking of E-Mail account.	2
10	Study of Payment Gateway and how to identify genuine payment Gateway.	2
11	Study of Electronic Payment :- a) IMPS b) NEFT c) RTGS d) DD e) Wallet	2
12	Study of Creating Free Electronic Payment Gateway :- a) Payumoney	2

Name of Course	BCA Second Year
Semester	III Semester
Name of Subject	Desktop Publishing -I
Subject Code	S3.SEC1 (1)

1. INTRODUCTION

Introduction to Desk Top Publishing, Introduction to Page Maker Advantages, Using the Mouse, Components of the Page Maker Window

2. CREATING A NEW DOCUMENT

Setting the Margins, Setting the Page Size, Changing the page Orientation, Setting Page Numbers, Changing the Page Size view, Creating New Document Windows: Displaying the Rulers, Changing the Rulers, Using Rulers, Using Guidelines, Positioning Guidelines., Adding Guidelines to Master Pages. Aligning to Guidelines, Displaying Guidelines, Locking Guidelines. Formatting Types: Changing Font Families, Changing Font Sizes, Changing Typeface Style, Changing Character Specifications : Changing Type leading, Changing Character Widths, Changing Tracking, Changing Type Options. Saving Your Document: Saving a new Document, Saving an existing Document, Saving a Document as another document, Reverting to a Previously Saved Version. Developing Paragraphs: Typing Text, Adding special Characters to Text, Aligning Text. Formatting paragraphs: Changing Indents, Changing the space around Paragraphs, Changing paragraph Alignment, controlling How Paragraphs Break Between Pages and Columns, Adding lines Above or Below Your Paragraphs.

3. INTRODUCTION TO CREATING FRAMES

Converting Other Objects to Frames, Threading and Unthreading Text. Threading additional Text, Threading Text to Different Page, Unthreading Text Blocks, Rethreading Text Blocks, Making Text Blocks Disappear Without Deleting them, Selecting and Dragging Text, Editing Deleting Text, Cut, Copying, Pasting Text, Viewing the Contents of Clipboard, Using Undo and Revert. Inserting and Removing Pages: Inserting and Removing Pages, Adjusting Spacing of Characters, Words, Lines : Adjusting, Spacing and Leading, Setting and changing Tabs.

4. Introduction to Auto Flow, page maker Plug-Ins, Drop Cap, Change Case, Bullets and Numbering.

5. ADDING DESIGN ELEMENTS- INTRODUCTION

Adding Graphics to your Document, Adding Lines, Changing Lines Specifications, Adding Shapes, changing Shape specifications, Changing Line and fill, Specifications together (Fill and Stroke), Changing Round Corners, Creating Drop-Shadow, Boxes, Text wrap, Changing page maker Options: Adjusting Margins, Setting and Adjusting Columns, Setting Unequal Width Columns, Creating headers and Footers, Creating Graphics in page maker, Rotating Text, Skewing and Mirroring objects with Control Palette. Importing Graphics into page maker : Placing, Sizing, aligning Graphics, Cropping Graphics.Introduction to Using layers,

Moving and creating objects. Introduction to Printing- Selecting a Printer, Printing your Document, Printing Document Dialog Box Options.

7. DEVELOPING LONG DOCUMENTS

Introduction – Using Story Editor: Opening Story Editor, How the Story Editor names, Tories, Switching Between Story Editor and Layout Editors, Closing Story Editor and Placing the Story Editor, Differences between Story Editor and layout Editors.

8. SPELLINGS:

Starting the speller, Correcting Misspelled Words, Correcting Duplicate Words, Adding Words to the different Dictionaries, Correcting Duplicate Words, using find Feature, Using the change Feature, using page Maker Help.

BOOKS

1. Adobe PageMaker 7.0 Contributor: Adobe Systems Edition: illustrated Publisher Adobe Press, 2002 ISBN 0201756250, 9780201756258

Name of Course	BCA Second Year
Semester	III Semester
Name of Subject	Web Development and PHP Programming
Subject Code	S3.SEC1 (2)

S3.SEC.1 (2) Web Development and PHP Programming

1. Introduction to PHP

- 1.1 Basic Syntax
- 1.2 Sending Data to the Web Browser
- 1.3 Understanding PHP, HTML, and White Space
- 1.4 Writing Comments
- 1.5 What Are Variables?
- 1.6 About Strings
- 1.7 About Numbers
- 1.8 About Constants

2. Programming with PHP

- 2.1 Creating an HTML Form
- 2.2 Handling an HTML Form
- 2.3 Managing Magic Quotes
- 2.4 Conditionals and Operators
- 2.5 Validating Form Data
- 2.6 What Are Arrays?
- 2.7 For and While Loops

3. String Manipulation and Regular Expression

- 3.1 Creating and accessing String, Searching & Replacing String
- 3.2 Formatting, joining and splitting String, String Related Library functions
- 3.3 Use and advantage of regular expression over inbuilt function

4. Creating Dynamic Web Sites

- 4.1 Including Multiple Files
- 4.2 Handling HTML Forms with PHP Redux
- 4.3 Making Sticky Forms
- 4.4 Creating and Calling Your Own Functions
- 4.5 Variable Scope
- 4.6 Date and Time Functions
- 4.7 Sending Email

5. Using PHP with MySQL

- 5.1 Connecting to MySQL and Selecting the Database
- 5.2 Executing Simple Queries
- 5.3 Retrieving Query Results
- 5.4 Ensuring Secure SQL
- 5.5 Counting Returned Records
- 5.6 Updating Records with PHP

6. Cookies and Sessions

- 6.1 Using Cookies
- 6.2 Using Sessions
- 6.3 Sessions and Cookies
- 6.4 Improving Session Security

References

1. PHP and MySQL for Dynamic Web Sites: Visual Quickpro Guide, Second Edition by Larry Ullman

Practical Assignments

1. Creating HTML FORM
2. Validating Form Data
3. Date and Time Functions
4. Sending Email.
5. Program based on arrays.
6. Program based on loops.
7. Making Sticky Forms
8. Creating and Calling Your Own Functions
9. Including multiple files.
10. Using the MySQL Client
11. Creating Databases and Tables
12. Connecting to MySQL and Selecting the Database , Executing Simple Queries , Retrieving Query Results , Ensuring Secure SQL , Counting Returned Records , Updating Records with PHP
13. Using Cookies
14. Using Sessions.

Name of Course	BCA Second Year
Semester	III Semester
Name of Subject	PC Installation
Subject Code	S3.SEC.1 (3)

S3.SEC.1 (3) (PC Installation)

Sr. No.	Title of Programme	Required Hours
1)	Study of Hardware Component on Motherboard	4 hours
2)	Study of identifying RAM type and Installation of RAM SD, DDR, DDR1, DDR2, DDR3	2 hours
3)	Study of HDD Drive and installation of HDD	1 hours
4)	Study of Assemble a Computer System.	4 hours
5)	Study of Installing Windows 7 OS	2 hours
6)	Study of BIOS options	1 hour
7)	Study of Installing Windows 8 OS	2 hours
8)	Study of Installing Application Packages/Software – Microsoft Word, PDF reader, Browsing Software's	2 hours
9)	Study of Transmission Medias – Twisted Pair Cable, Co-ax Cable, Fiber-optic Cable.	1 hours
10)	Study of Crimping CAT-5 Straight Cable	1 hours
11)	Study of Crimping CAT-5 Cross over Cable	1 hours
12)	Study of Networking Devices – Hub, Switch, Router	1 hours
13)	Study of IP addresses- IPV4, IPV6.	2 hours
14)	Study of assigning IPV4 and IPV6 addresses to computer system	1 hour
15)	Study of Windows Firewall and Windows Defender	1 hour
16)	Troubleshoot to find connectivity problem	1 hour
17)	Performing another computer using Remote Desktop	1 hour
18)	Performing another computer using Team Viewer/Ammy Admin	1 hour
19)	Installing any Local Printer	1 hour
20)	To share a printer	1 hour
21)	To share a Folder/Map a Drive	1 hour

References:

Sr. No.	Name of the book	Author	Publication
1.	COMP INSTALL AND SERVICING ISBN 1259082466, 9781259082467	BALASUBRAMANIAN D	Tata McGraw Hill Edition
2.	PC Installation and LAN Setup	J.C.Shaikh	J S Publication
3.	https://en.wikibooks.org/wiki/How_To_Assemble_A_Desktop_PC/Software	Wikibooks	Website Link

Name of Course	BCA Second Year
Semester	IV Semester
Name of Subject	Numerical Aptitude
Subject Code	S4.AEC.1

1.	Introduction of Number system	Lectures Required	Ref. No.
a)	Numbers: Types of numbers	02	1,2
b)	Divisibility tests of numbers	02	1,2
c)	arithmetic progression	01	1,2
d)	Geometric progression	02	1,2
e)	Relationship between Arithmetic progression and Geometric progression	01	1,2
f)	HCF and LCM : Methods of calculating highest common factor and greatest common divisor	01	1,2
g)	factorization method, Division method, Finding HCF and LCM more than two numbers	01	1,2
h)	LCM and HCF of fractions and decimal numbers, Applications of LCM and HCF.	01	1,2

UNIT I

References:

Sr.No	Name of Book	Author	Publication
1.	1) Quantitative Aptitude by Dr.R.S Aggrawal , S. Chand and Company Publications	Dr.R.S Aggrawal , S. Chand	Company Publication
2.	Quantitative Aptitude	Abijit Guha	Tata McGraw Hill Publications
3.	Objective Arithmetic	S.L Gulati	Cosmos book hive Pvt,5 th edition2015

UNIT II

2.	Average, Problem on ages, Percentage, and Profit and Loss	Lectures Required	Ref. No.
a)	Average: Definition of average, Formulae and theoretical problem on average.	02	1,2
b)	Problem on ages: simultaneous equations and their applications	02	1,2
c)	Theoretical problems on ages, Theoretical problems on numbers.	01	1,2
d)	Percentage: Concept of percentage, Application of percentage, Results on populations, Result on depreciations, Theoretical problem on percentage.	02	1,2
e)	Profit and Loss: Definition of cost price, selling price and profit, Formulae of profit and loss, Theoretical problems on profit and loss.	01	1,2

Sr.No	Name of Book	Author	Publication
1.	1) Quantitative Aptitude by Dr.R.S Aggrawal , S. Chand and Company Publications	Dr.R.S Aggrawal , S. Chand	Company Publication
2.	Quantitative Aptitude	Abijit Guha	Tata McGraw Hill Publications
3.	Objective Arithmetic	S.L Gulati	Cosmos book hive Pvt,5 th edition2015

UNIT III

3.	Percentage,	Lectures Required	Ref. No.
a)	Percentage: Concept of percentage, Application of percentage, Results on populations,	02	1,2
b)	Result on depreciations, Theoretical problem on percentage.	02	1,2

Sr.No	Name of Book	Author	Publication
1.	1) Quantitative Aptitude by Dr.R.S Aggrawal , S. Chand and Company Publications	Dr.R.S Aggrawal , S. Chand	Company Publication
2.	Quantitative Aptitude	Abijit Guha	Tata McGraw Hill Publications
3.	Objective Arithmetic	S.L Gulati	Cosmos book hive Pvt,5 th edition2015

UNIT IV

4.	Time and Work, Time and Distance and Problems on Train	Lectures Required	Ref. No.
a)	Time and Work: Concept of time and work, Relationship between time and work, Theoretical problems on time and work	02	1,2
b)	Time and Distance: Concept of time and distance, Formulae of time and distance, Theoretical problems on time and distance.	02	1,2
c)	Problems on Train: Formulae of problems on train, Theoretical problems on train.	01	1,2

Sr.No	Name of Book	Author	Publication
1.	1) Quantitative Aptitude by Dr.R.S Aggrawal , S. Chand and Company Publications	Dr.R.S Aggrawal , S. Chand	Company Publication
2.	Quantitative Aptitude	Abijit Guha	Tata McGraw Hill Publications
3.	Objective Arithmetic	S.L Gulati	Cosmos book hive Pvt,5 th edition2015

UNIT V

5.	Boat and streams, Allegations and Mixtures, and Calendar	Lectures Required	Ref. No.
a)	Boat and streams: Concept of boat and streams, Formulae of boat and streams, Theoretical problems on boat and streams.	02	1,2
b)	Allegations and Mixtures: Definition of allegation and mixtures, Rules of allegation's, Theoretical problems on mixture and allegation.	02	1,2
c)	Calendar: Concept of odd days, Leap years and ordinary years, Problems on Calendar.	01	1,2

Sr.No	Name of Book	Author	Publication
1.	1) Quantitative Aptitude by Dr.R.S Aggrawal , S. Chand and Company Publications	Dr.R.S Aggrawal , S. Chand	Company Publication
2.	Quantitative Aptitude	Abijit Guha	Tata McGraw Hill Publications
3.	Objective Arithmetic	S.L Gulati	Cosmos book hive Pvt,5 th edition2015

UNIT VI

6.	Simple and Compound Interest, Probability, and Permutations and combinations		Lectures Required	Ref. No.
	a)	Simple and Compound Interest: Definition of simple and Compound interest, Formulae of simple and compound interest, Relationship between simple and compound interest, Theoretical problems on simple and compound interest.	02	1,2
	b)	Probability: Definition of probability, Examples of performing a random experiment, Probability of occurrence of an event, Results on probability, Theoretical problems on probability.	02	1,2
	c)	Permutations and combinations: Definition of permutations and combinations, Formulae of permutation and combinations, Relationship between permutation and combinations, Problems on permutations and combinations.	01	1,2

Sr.No	Name of Book	Author	Publication
1.	1) Quantitative Aptitude by Dr.R.S Aggrawal , S. Chand and Company Publications	Dr.R.S Aggrawal , S. Chand	Company Publication
2.	Quantitative Aptitude	Abijit Guha	Tata McGraw Hill Publications
3.	Objective Arithmetic	S.L Gulati	Cosmos book hive Pvt,5 th edition2015

Name of Course	BCA Second Year
Semester	IV Semester
Name of Subject	Java Programming
Subject code	S4.CC.2

UNIT-I

Sr. No.	Introduction		Lectures Required	Ref. No
1	1.1	Java History	1	1,2,3,4
	1.2	Java Features	2	1,2,3,4
	1.3	How Java Differ from C and C++	2	1,2,3,4
	1.4	JVM	1	3,4
	1.5	Java Environment	1	4
	1.6	Java Programming Structure	1	4

References:

Sr. No	Name of Book	Writer	Publication
1	Complete Reference	Herbert Schildt	Tata McGraw- Hill Publishing company Ltd.
2	Java 2 programming black books	Steven Horlzner	DreamTech Press
3	Core Java Volume-I- Fundamentals Eighth Edition	Cay S. Horstmann, Gary Cornell, Prentice Hall	Sun Microsystems Press
4	Programming with Java	E Balagurusamy	The McGraw Hill Education Pvt. Ltd. New Delhi

UNIT-II

Sr. No.	Overview of Java Language		Lectures Required	Ref. No	
2)	2.1	Introduction, Types of Comment	1	1,2,3,4	
	2.2	Java Tokens - Reserve Keywords - Identifiers - Literals - Operators - Separators	3	1,2,3,4	
		2.3	Variables, Constant, Data Types, Array	3	1,2,3,4
		2.4	Type Casting	1	1,2,3,4
		2.5	Control Statement - Branching statement - Looping statement	3	1,4

References:

Sr. No	Name of Book	Writer	Publication
1	Complete Reference	Herbert Schildt	Tata McGraw- Hill Publishing company Ltd.
2	Java 2 programming black books	Steven Horlzner	DreamTech Press
3	Core Java Volume-I- Fundamentals Eighth Edition	Cay S. Horstmann, Gary Cornell, Prentice Hall	Sun Microsystems Press
4	Programming with Java	E Balagurusamy	The McGraw Hill Education Pvt. Ltd. New Delhi

UNIT-III

Sr. No.	Classes, Objects and Methods		Lectures Required	Ref. No	
3)	3.1	Introduction, Defining Class - Fields Declaration - Methods Declaration - Creating Objects - Visibility Control	1	1,2,3,4	
		3.2	Use of 'this' Keyword	1	1,2,3,4
		3.3	Method Parameters	1	1,2,3,4
		3.4	Method Overloading	1	1,2,3,4
		3.5	Constructor and Constructor Overloading	1	1,2,3,4
		3.6	Static Members	1	1,2,3,4
		3.7	Finalizer Method	1	1,2,3,4
		3.8	Inheritance and It's Types	1	1,2,3,4
		3.9	Method Overriding	1	1,2,3,4
		3.10	Final Variable, Method and Final Class	1	1,2,3,4

References:

Sr. No	Name of Book	Writer	Publication
1	Complete Reference	Herbert Schildt	Tata McGraw- Hill Publishing company Ltd.
2	Java 2 programming black books	Steven Horlzner	DreamTech Press
3	Core Java Volume-I- Fundamentals Eighth Edition	Cay S. Horstmann, Gary Cornell, Prentice Hall	Sun Microsystems Press
4	Programming with Java	E Balagurusamy	The McGraw Hill Education Pvt. Ltd. New Delhi

UNIT-IV

Sr. No.	Interface, Package and Exception Handling		Lectures Required	Ref. No
4)	4.1	Defining and implementing interface	2	2,3,4
	4.2	Inner Classes	1	2,3,4
	4.3	Package	2	2,3,4
		- Create Package - Accessing Package		
4.4	Exception	3	2,3,4	
	- Types of Error			
	- Multiple catch statement			
	- Creating User defined Exception - Finally clause			

References:

Sr. No	Name of Book	Writer	Publication
1	Complete Reference	Herbert Schildt	Tata McGraw- Hill Publishing company Ltd.
2	Java 2 programming black books	Steven Horlzner	DreamTech Press
3	Core Java Volume-I- Fundamentals Eighth Edition	Cay S. Horstmann, Gary Cornell, Prentice Hall	Sun Microsystems Press
4	Programming with Java	E Balagurusamy	The McGraw Hill Education Pvt. Ltd. New Delhi

UNIT-V

Sr. No.	String and Stream		Lectures Required	Ref. No
5)	5.1	Introduction	1	1,2,3,4
	5.2	String Classes	1	1,2,3,4
	5.3	String Buffer Class	1	1,2,3,4
	5.4	Stream Classes	2	1,2,3,4
- Types of Streams				
- Byte Stream Classes - Character Stream Classes				

References:

Sr. No	Name of Book	Writer	Publication
1	Complete Reference	Herbert Schildt	Tata McGraw- Hill Publishing company Ltd.
2	Java 2 programming black books	Steven Horlzner	DreamTech Press
3	Core Java Volume-I- Fundamentals Eighth Edition	Cay S. Horstmann, Gary Cornell, Prentice Hall	Sun Microsystems Press
4	Programming with Java	E Balagurusamy	The McGraw Hill Education Pvt. Ltd. New Delhi

UNIT-VI

Sr. No.	File I/O and JDBC	Lectures Required	Ref. No
6.1	Reading and Writing to Files	1	1,2,3,4
6.2	Date & Times	1	1,2,3,4
6.3	Regular Expression	2	1,2,3,4
6.3	Serialization & Deserialization	1	1,2,3,4
6.4	Introduction to JDBC	1	1,2,3,4
6.5	JDBC Drivers & Architecture	1	1,2,3,4
6.6	Create, Select, Update, Delete operation Using JDBC	3	1,2,3,4

References:

Sr. No	Name of Book	Writer	Publication
1	Complete Reference	Herbert Schildt	Tata McGraw- Hill Publishing company Ltd.
2	Java 2 programming black books	Steven Horlzner	DreamTech Press
3	Core Java Volume-I- Fundamentals Eighth Edition	Cay S. Horstmann, Gary Cornell, Prentice Hall	Sun Microsystems Press
4	Programming with Java	E Balagurusamy	The McGraw Hill Education Pvt. Ltd. New Delhi

Name of Course	BCA SECOND YEAR
Semester	IV Semester
Name of Subject	Relational Database Management System
Subject Code	S4.CC.3

Unit – I

1.	Introduction and Basic Concepts	Lecturers Required	Ref. No.
	a) Structure of DBMS	2	1
	b) Advantages and Disadvantages of DBMS	1	1
	c) Users of DBMS	1	1
	d) Relational Database: Entities, Attributes and Domains	1	1
	e) Tuples, Relations and their schemes.	1	1

References:

1)	"An Introduction to Database Systems": -by Bipin C Desai Revised Edition Galgotia Publication
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Unit – II

2.	SQL Statements & Working With Tables	Lecturers Required	Ref. No.
	a) What is SQL?	01	1
	b) Types of SQL Commands (DDL, DML, DQL, DCL, Transaction Control Commands)	03	1
	c) Data types in SQL	03	1
	d) Creating Tables	03	1
	e) Selecting from tables, WHERE Clause	01	1
	f) Selecting from tables, DISTINCT Clause, Column aliasing	03	1
	g) Manipulation Table data	03	1
	h) Altering Table structure	03	1
	i) Data Constraints: Unique, Not Null, Primary Key, Foreign Key, Check, Default Constraint	03	1

References:

1)	“Oracle Database 10g PL/SQL Programming” by Scott Urman , Ron Hardman, MichaleMc Laughlin, Oracle Press, TMH, ISBN-0-07-059779-0.
2)	“Oracle Database 10g The Complete Reference” By Kevin Loney, Bob Bryla Oracle Press (TATA McGraw Hill Edition) ISBN-13:978-0-07-059425-8, ISBN-10: 0-07-059425-2
3)	SQL, PL/SQL the programming language of ORACLE 4 th Edition by Ivan Bayross ISBN-81-7656964-X

Unit – III

3.	Operators & SQL Functions & Views	Lecturers Required	Ref. No.
	a) Arithmetic Operators, Relational Operators	1	1
	b) Comparison Operators BETWEEN , IN, LIKE, IS NULL	02	1
	c) LOGICAL Operators: AND OR NOT	01	1
	d) SQL Functions: Single, Multiple Row Functions	01	1
	e) Single Row Character , Single Row Number, Single Row Date, Single Row Conversion, Single Row General Functions	05	1
	f) Multiple Row Functions	03	1
	g) Views	02	

References:

1)	“Oracle Database 10g PL/SQL Programming” by Scott Urman , Ron Hardman, MichaleMc Laughlin, Oracle Press, TMH, ISBN-0-07-059779-0.
2)	“Oracle Database 10g The Complete Reference” By Kevin Loney, Bob Bryla Oracle Press (TATA McGraw Hill Edition) ISBN-13:978-0-07-059425-8, ISBN-10: 0-07-059425-2
3)	SQL, PL/SQL the programming language of ORACLE 4 th Edition by Ivan Bayross ISBN-81-7656964-X

Unit – IV

4.	Sorting & Grouping Data and Joining Tables & Subqueries in ORACLE	Lecturers Required	Ref. No.
	a) What is Sorting?	01	1
	b) ORDER BY & ORDER BY DESC Clauses	02	1
	c) GROUP BY & GROUP BY HAVING Clauses	02	1
	d) What is Join? Join Styles: Theta , ANSI , Using clause	01	1
	e) Types of Joins: Equi Joins, Non Equi Join, Outer Join: Left, Right, Full	04	1
	f) Self Join Cross Join, Joining three tables	03	1
	g) Subqueries & its types	03	

References :

1)	“Oracle Database 10g PL/SQL Programming” by Scott Urman , Ron Hardman, MichaleMc Laughlin, Oracle Press, TMH, ISBN-0-07-059779-0.
2)	“Oracle Database 10g The Complete Reference” By Kevin Loney, Bob Bryla Oracle Press (TATA McGraw Hill Edition) ISBN-13:978-0-07-059425-8, ISBN-10: 0-07-059425-2
3)	SQL, PL/SQL the programming language of ORACLE 4 th Edition by Ivan Bayross ISBN-81-7656964-X

Unit – V

5.	Introduction to PL/SQL		Lecturers Required	Ref. No.
	a)	PL/SQL Overview	02	1
	b)	Declarations Section	02	1
	c)	Executable Commands Section	02	1
	d)	Exception Handling Section	02	1

References :

1)	“Oracle Database 10g PL/SQL Programming” by Scott Urman , Ron Hardman, MichaleMc Laughlin, Oracle Press, TMH, ISBN-0-07-059779-0.
2)	“Oracle Database 10g The Complete Reference” By Kevin Loney, Bob Bryla Oracle Press (TATA McGraw Hill Edition) ISBN-13:978-0-07-059425-8, ISBN-10: 0-07-059425-2
3)	SQL, PL/SQL the programming language of ORACLE 4 th Edition by Ivan Bayross ISBN-81-7656964-X

Unit – VI

6.	Database Triggers & Cursors		Lecturers Required	Ref. No.
	a)	What are Triggers? Triggers Syntax	02	1
	b)	Types of triggers Row Level Statement Level, Before , After Instead of Triggers	03	1
	c)	Enabling and Disabling Triggers Replacing and Dropping Triggers	02	1
	d)	Working with Cursor % TYPE Variable % ROWTYPE Variable	02	1

References :

1)	“Oracle Database 10g PL/SQL Programming” by Scott Urman , Ron Hardman, MichaleMc Laughlin, Oracle Press, TMH, ISBN-0-07-059779-0.
2)	“Oracle Database 10g The Complete Reference” By Kevin Loney, Bob Bryla Oracle Press (TATA McGraw Hill Edition) ISBN-13:978-0-07-059425-8, ISBN-10: 0-07-059425-2
3)	SQL, PL/SQL the programming language of ORACLE 4 th Edition by Ivan Bayross ISBN-81-7656964-X

Name of Course	BCA Second Year
Semester	IV Semester
Name of Subject	Operating System
Subject Code	S4.CC.4

Unit – I

1.	Introduction	Lecturers Required	Ref. No.
	a) What Operating System Do – 1) User View 2) System View 3) Defining OS	1	1
	b) Computer System Organization	2	1
	c) Computer System Architecture – 1) Single Processor System 2) Multiprocessor System	2	1
	d) Extended Machine Concept	1	2
	e) Operating System Structure	1	1
	f) An Operating System Resource Manager	2	2

References:

Sr. No.	Name of the Book	Author	Publication
1	Operating System Concepts	Abraham Silberschatz, Peter Galvin, Greg Gagne	WILEY India Edition 8 th Edition
2	Operating Systems	Stuart E. Madnick, John J. Donovan	Tata McGraw-Hill Publishing Limited

Unit – II

2.	System Structure	Lecturers Required	Ref. No.
	a) Operating System Services	1	1
	b) User Operating System Interface – 1) Command Interpreter 2) GUI	1	1, 2
	c) System Boot	1	1, 2
	d) System Calls	1	1, 2
	e) Types of System Calls – 1) Process Control 2) File Management 3) Device Management 4) Information Maintenance 5) Communication 6) Protection	3	1

References:

Sr. No.	Name of the Book	Author	Publication
1	Operating System Concepts	Abraham Silberschatz, Peter Galvin, Greg Gagne	WILEY India Edition 8 th Edition
2	Operating Systems	Achyut Godbole, Atul Kahate	McGraw Hill Education Third Edition

Unit – III

3.	Process Management	Lecturers Required	Ref. No.
	a) Process Concept – 1) The Process 2) Process States 3) Process Control Block	3	1, 2
	b) Process Scheduling – 1) Scheduling Queues 2) Schedulers 3) Context Switching	3	1, 2
	c) Scheduling Criteria	1	1
	d) Scheduling Algorithms – 1) FCFS 2) SJF 3) Priority Scheduling 4) Round-Robin Scheduling	4	1

References:

Sr. No.	Name of the Book	Author	Publication
1	Operating System Concepts	Abraham Silberschatz, Peter Galvin, Greg Gagne	WILEY India Edition 8 th Edition
2	Operating Systems	Achyut Godbole, Atul Kahate	McGraw Hill Education Third Edition

Unit – IV

4.	Multithreaded Programming	Lecturers	Ref. No.
	a) Overview	1	1, 2
	b) Multithreading Models	2	1, 2
	c) Thread Libraries – pthreads	1	1

References:

Sr. No.	Name of the Book	Author	Publication
1	Operating System Concepts	Abraham Silberschatz, Peter Galvin, Greg Gagne	WILEY India Edition 8 th Edition
2	Operating Systems	Achyut Godbole, Atul Kahate	McGraw Hill Education Third Edition

Unit – V

5.	Memory Management	Lecturers	Ref. No.
	a) Introduction	1	2
	b) Contiguous Memory Allocation 1) Memory Allocation 2) Fragmentation	2	1
	c) Paging 1) Basic Method 2) Hardware Support	2	1
	d) Segmentation 1) Basic Method 2) Hardware Support	3	1

References:

Sr. No.	Name of the Book	Author	Publication
1	Operating System Concepts	Abraham Silberschatz, Peter Galvin, Greg Gagne	WILEY India Edition 8 th Edition
2	Operating Systems	Achyut Godbole, Atul Kahate	McGraw Hill Education Third Edition

Unit – VI

6.	File System	Lecturers	Ref. No.
	a) File concept	1	1
	b) Access Methods 1) Sequential 2) Direct	2	1
	c) Directory and Disk Structure 1) Directory Overview 2) Single Level Directory 3) Two Level Directory 4) Tree Structure Directory	3	1
	d) Allocation Methods 1) Contiguous Allocation 2) Linked Allocation 3) Indexed allocation	3	1
	e) Free Space Management 1) Bit Vector 2) Linked List 3) Grouping 4) Counting	2	1

Reference:

Sr. No.	Name of the Book	Author	Publication
1	Operating System Concepts	Abraham Silberschatz, Peter Galvin, Greg Gagne	WILEY India Edition 8 th Edition

Name of Course	BCA Second Year
Semester	IV Semester
Name of Subject	Computer Graphics
Subject Code	S4.CC.5 Elective (1)

UNIT I

1	Introduction to computer graphics	Lectures Required	Ref no
a	Introduction	01	01
b	Advantages of CG	01	01
c	Applications of CG	01	01,02
d	Display Devices	01	01
e	Cathode ray tubes	02	01,02

	f	Color CRT monitors	01	01,02
	g	Direct View Storage Tube	01	01

Sr.No.	Name of the book	Author	Publication
1	Principles of interactive computer graphics	William Newman & Robert Sproull	THM
2	Procedural elements for computer graphics	david f. Rogers	THM

UNIT II

2	Raster Scan graphics & Transformation		Lecturers Required	Ref no
	a	Line drawing algorithm	01	01,02
	b	Digital Differential Analyzers	02	01,02
	c	Bresenham`s Line algorithms	02	01,02

Sr.No.	Name of the book	Author	Publication
1	Principles of interactive computer graphics	William Newman & Robert Sproull	THM
2	procedural elements for computer graphics	david f. Rogers	THM

UNIT III

3	Transformation		Lecturers Required	Ref no
	d	Two dimensional transformation	01	01,02
	e	Matrix representation	01	01,02
	f	Translation	01	01,02
	g	Rotation	01	01,02
	h	Scaling	01	01,02
	i	Reflection	01	01,02
	j	Shearing	01	01,02

Sr.No.	Name of the book	Author	Publication
1	Principles of interactive computer graphics	William Newman & Robert Sproull	THM
2	procedural elements for computer graphics	david f. Rogers	THM

UNIT IV

4	Segmented Display Files		Lecturer Required	Ref no
	a	Segment table	01	01,02
	b	Functions for segmenting display file	01	01,02
	c	Posting & unposting segments	01	01,02
	d	Segment naming scheme	01	01,02
	e	Default error conditions	01	01,02
	f	Appending to segments	01	01,02

Sr.No.	Name of the book	Author	Publication
1	Principles of interactive computer graphics	William Newman & Robert Sproull	THM
2	Computer graphics	-A.P.Gogse	

UNIT V

5	Clipping window & display file Compilation		Lecturer Required	Ref no
	b	2-D clipping	01	01,02
	c	Simple visibility algorithm	02	01,02
	d	End point codes	01	01,02
	e	Midpoint subdivision algorithm	01	01,02
	h	Display File Compiler	01	01,02
	i	Refresh concurrent with reconstruction	01	01,02
	j	Free storage allocation	01	01,02
	k	Display file structure	01	01,02

Sr.No.	Name of the book	Author	Publication
1	Principles of interactive computer graphics	William Newman & Robert Sproull	THM
2	Computer graphics	-A.P.Gogse	

UNIT VI

6	Geometrics Model & Graphics package		Lecturer Required	Ref no
	b	Geometric modeling	01	01,02
	c	Symbols & instances	02	01,02
	d	Implementation of Instance transformation	02	01,02
	e	Ground rules for graphics s/w design	01	01,02
	f	Function domains	02	01,02
	g	Graphics primitives	02	01,02

Sr.No.	Name of the book	Author	Publication
1	Principles of interactive computer graphics	William Newman & Robert Sproull	THM
2	procedural elements for computer graphics	david f. Rogers	THM

Name of Course	BCA Second Year
Semester	IV Semester
Name of Subject	Computer Architecture and Microprocessor
Subject Code	S4.CC.5 Elective (II)

Unit – I

1.	Introduction to Processor Design	Lectures Required	Ref. No.
	a) Processor level components.	01	1
	b) Processor organization	01	1
	c) Information representation	01	1

	d)	Instruction types: Depending on address, operation and design complexity.	03	1
	e)	Vector concepts	02	1

References:

Sr. No.	Name of the Book	Author	Publication
1.	Computer Architecture and Organization	J.P. Hayes (MGH)	McGraw-Hill International editions

Unit – II

2.	Control Unit and Memory Organization		Lectures Required	Ref. No.
	a)	Hardwired control unit	03	1
	b)	Microprogrammed control unit	01	1
	c)	Virtual Memory	02	1
	d)	Memory: Hierarchies, Allocation and Segmentation.	03	1
	e)	High speed Memories: Interleaved and Associative memory	02	1

References:

Sr. No.	Name of the book	Author	Publication
1.	Computer Architecture and Organization	J.P. Hayes (MGH)	McGraw-Hill International editions

Unit – III

3.	8085 Microprocessor Architecture		Lectures Required	Ref. No.
	a)	Features of 8085 microprocessor	01	1
	b)	Block diagram of 8085 microprocessor	03	1
	c)	Pin diagram of 8085 microprocessor	02	1
	d)	De-multiplexing of address and data bus	01	1
	e)	Instruction cycle: Fetch and Executive cycle	01	1

References:

Sr. No.	Name of the book	Author	Publication
1.	Microprocessor 8085	B.RAM	Dhanpat Rai publications

Unit – IV

4.	Addressing modes of 8085 Microprocessor		Lecturers Required	Ref. No.
	a)	Register addressing mode	01	1
	b)	Direct addressing mode	01	1
	c)	Register indirect addressing mode	01	1
	d)	Immediate addressing mode	01	1
	e)	Implicit/Implied addressing mode	01	1

References:

Sr. No.	Name of the book	Author	Publication
1.	Microprocessor 8085	B.Ram	Dhanpat Rai publications

Unit – V

5.	Instruction set of Intel 8085 Microprocessor		Lecturers Required	Ref. No.
	a)	Data Transfer group of instructions	02	1
	b)	Arithmetic group of instructions	02	1
	c)	Logical group of instructions	02	1
	d)	Branch group of instructions	02	1
	e)	I/o and machine control group of instructions	02	1

References:

Sr. No.	Name of the book	Author	Publication
1.	Microprocessor 8085	B.Ram	Dhanpat Rai publications

Unit – VI

6.	Assembly Language Programming of 8085 Microprocessor		Lecturers Required	Ref. No.
	Assembly language programming		06	1

References:

Sr. No.	Name of the book	Author	Publication
1.	Microprocessor 8085	B.Ram	Dhanpat Rai publications

Name of Course	BCA SECOND YEAR
Semester	IV Semester
Name of Subject	Event Driven Programming
Subject Code	S4.CC.5 Elective (III)

Unit – I

1.	Introduction to Event Driven Programming		Lectures Require	Ref. No.
	a)	What is Event	01	1, 2
	b)	Event Handling in .Net Framework	02	1, 2

	c)	Event Handler Arguments	02	1, 2
	d)	Creating and Using Events	03	1, 2

References:

Sr. No.	Name of the Book	Author	Publication
1.	Professional VB.Net 2003	Bill Evjen, Bills Hollis	Wrox Publication
2.	Mastering Visual	Evangelos Patroutsos	BPB Publication

Unit – II

2.	Visual Basic : Language	Lectures Require	Ref. No.
	a) Variables and Data Types	03	1, 2
	b) Arrays	02	1, 2
	c) Flow Control Statements	03	1, 2
	d) Subroutines and Functions	02	

References:

Sr. No.	Name of the Book	Author	Publication
1.	Mastering Visual Basic.Net	Evangelos Patroutsos	BPB Publication
2.	Visual Basic. Net	Billy Hollis, Rockford	Wrox Publication

Unit- III

3.	Building Windows Application	Lectures Require	Ref. No.
	a) Properties and Events of Form	02	1, 2
	b) Designing Menus	02	1, 2
	c) Building Dynamic Form	01	1, 2
	d) Windows Controls	04	
	e) SDI and MDI Application		

References:

Sr. No.	Name of the Book	Author	Publication
1.	Mastering Visual Basic.Net	Evangelos Patroutsos	BPB Publication
2.	Visual Basic.Net Programming Black Book	Steven Holzner	Dreamtech Press

Unit- IV

4.	Building Custom Classes and Controls	Lectures Require	Ref. No.

	a)	Creating and Using Custom Class	02	1, 2
	b)	Inheritance	01	1, 2
	c)	Polymorphism	01	1, 2
	d)	Creating and Using Custom Control	02	

References:

Sr. No.	Name of the Book	Author	Publication
1.	Mastering Visual Basic.Net	Evangelos Patroutsos	BPB Publication
2.	Visual Basic. Net	Billy Hollis, Rockford	Wrox Publication

Unit V

5.	Working with String, DateTime and Error Handling		Lectures Require	Ref. No.
	a)	Char Class	01	1, 2
	b)	String Class	02	1, 2
	c)	DateTime Class	01	1, 2
	d)	Types of Errors	01	
	e)	Structured Exception Handling	02	

References:

Sr. No.	Name of the Book	Author	Publication
1.	Mastering Visual Basic.Net	Evangelos Patroutsos	BPB Publication
2.	Visual Basic.Net Programming Black Book	Steven Holzner	Dreamtech Press

Unit VI

6.	Database Connectivity Using ADO.Net		Lectures Require	Ref. No.
	a)	ADO.Net Architecture	02	1, 2
	b)	Characteristics of ADO.Net	01	1, 2
	c)	Data Set	01	
	d)	Data Grid Control	01	
	e)	Connected Mode Database Connection	03	
	f)	Disconnected Mode Database Connection	03	

References:

Sr. No.	Name of the Book	Author	Publication
1.	Mastering Visual Basic.Net	Evangelos Patroutsos	BPB Publication
2.	Visual Basic.Net Programming Black Book	Steven Holzner	Dreamtech Press

Name of Course	BCA Second Year
Semester	IV Semester
Name of Subject	Lab Course – 1 (Java Programming)
Subject code	S4.Lab1

PRACTICAL List:

- 1) Program to demonstrate Constant Variable.
- 2) Program to demonstrate scope of Variable
- 3) Program to demonstrate branching statement
- 4) Program to demonstrate Looping statement
- 5) Program to demonstrate simple class
- 6) Program to demonstrate method parameter
- 7) Program to demonstrate method overloading
- 8) Program to demonstrate constructor
- 9) Program to demonstrate static member
- 10) Program to demonstrate Method overriding
- 11) Program to demonstrate Final variable, Method and Final Class.
- 12) Program to demonstrate Finilize method()
- 13) Program to demonstrate Array and It's types.
- 14) Program to demonstrate String class and it's method.
- 15) Program to demonstrate String Buffer and it's method.
- 16) Program to demonstrate inheritance and its Types
- 17) Program to demonstrate Abstract method and Abstract Class.
- 18) Program to demonstrate Multiple catch statement
- 19) Program to demonstrate finally clause
- 20) Program to demonstrate package
- 21) Program to demonstrate interface
- 22) Program to demonstrate Applet life cycle
- 23) Program to demonstrate param tag
- 24) Program to demonstrate Graphics class

Name of Course	BCA SECOND YEAR
Semester	IV Semester
Name of Subject	Lab Course – 2 (RDBMS)
Subject Code	S4.Lab 2

Sr. No.	Title of Programme	Required Hours
1)	What is SQL? Types of SQL Commands	3 hours
2)	Study of Datatypes in ORACLE	3 hours
3)	Creating Tables & Retrieving , Manipulating Data from tables	3 hours
4)	Study of Altering Tables IN ORACLE	3 hours
5)	Study of Data Constraints in ORACLE	3 hours
6)	Study of Operators	3 hours
7)	Study of SQL Functions	3 hours
8)	Study of Views in ORACLE	3 hours
9)	Study of Joining Tables in ORACLE	3 hours
10)	Study of Subqueries in ORACLE	3 hours
11)	Study of in PL/SQL Blocks in ORACLE	3 hours
12)	Study of in Triggers in ORACLE	3 hours
13)	Study of in Cursors in ORACLE	3 hours

References:

1)	“Oracle Database 10g PL/SQL Programming” by Scott Urman , Ron Hardman, MichaleMc Laughlin, Oracle Press, TMH, ISBN-0-07-059779-0.
2)	“Oracle Database 10g The Complete Reference” By Kevin Loney, Bob Bryla Oracle Press (TATA McGraw Hill Edition) ISBN-13:978-0-07-059425-8, ISBN-10: 0-07-059425-2
3)	SQL, PL/SQL the programming language of ORACLE 4 th Edition by Ivan Bayross ISBN-81-7656964-X

Name of Course	BCA SECOND YEAR
Semester	IV Semester
Name of Subject	Lab Course – 3 (Elective) Computer Graphics
Subject Code	S4.Lab 3 Elective -I

Practical List

1. Study of Graphics Library Function in C
2. Program to draw a line, circle, rectangle etc.
3. Program to draw multiple shapes using loops.
4. Program to implements DDA algorithm.
5. Program to implements Bresenhams, Algorithms.
6. Program to implements Integer Bresenhams Algorithms.
7. Program to implements General Bresenhams Algorithms.
8. Program to implements Simple Visibility mode.
9. Program to implements Mid-Point sub division algorithm.
10. Program to implements Translation Transformation.
11. Program to implements Rotation Transformation
12. Program to implements Scaling Transformation
13. Program to implements Shearing Transformation
14. Program to implements Reflection Transformation
15. Program for demonstration of setfillstyle and floodfill functions.
16. Program for demonstration of getimage and putimage function.
17. Program for creating simple animations.
18. Program for demonstration of setting font style, font name and size.

Name of Course	BCA SECOND YEAR
Semester	IV Semester
Name of Subject	Lab Course – 3 (Elective) Computer Architecture and Microprocessor
Subject Code	S4.Lab 3 Elective II

List of Practical's of 8085 Microprocessor

Sr. No.	Aim of practical
1.	Write an ALP to add two 8-bit numbers, whose sum is also 8-bit.
2.	Write an ALP to add two 8-bit numbers, whose sum is 16-bit.
3.	Write an ALP to add two 16-bit numbers, whose sum is also 16-bit.
4.	Write an ALP to add two 16-bit numbers, whose sum is more than 16-bits.
5.	Write an ALP to perform subtraction of two 8-bit numbers.
6.	Write an ALP to find 1's complement of 8-bit number.
7.	Write an ALP to find 1's complement of 16-bit number.
8.	Write an ALP to find 2's complement of 8-bit number.
9.	Write an ALP to find 2's complement of 16-bit number.
10.	Write an ALP to find larger number between two 8-bit numbers.
11.	Write an ALP to find larger number between array of numbers.
12.	Write an ALP to find smaller number between two 8-bit numbers.
13.	Write an ALP to find larger number between array of numbers.
14.	Write an ALP to arrange a series of numbers in ascending order.
15.	Write an ALP to arrange a series of numbers in descending order.
16.	Write an ALP to find a square of number from look-up table.

Steps for using 8085 simulator IDE software:

- **Click on start button.**
- **Now select programs.**
- **Then select 8085 Simulator IDE.**
- **Click on tools and select assembler, a window will appear .Now type the program.**
- **Then assemble the program.**
- **Finally execute the program by using step-by-step mode or run at a time method.**

Name of Course	BCA SECOND YEAR
Semester	IV Semester
Name of Subject	Lab Course – 3 (Elective) Event Driven Programming
Subject Code	S4.Lab 3 Elective -III

Practical List

1. Design an application for demonstration of looping statements.
2. Design an application for demonstration of Array.
3. Design an application for demonstration of Subroutines and Functions.
4. Design an application for demonstration of designing menus.
5. Design an application for demonstration of Dynamic form.
6. Design an application for demonstration of MDI Application.
7. Design an application for demonstration of custom class.
8. Design an application for demonstration of Inheritance.
9. Design an application for demonstration of Polymorphism.
10. Design an application for demonstration of Custom controls.
11. Design an application for demonstration of exception handling.
12. Design an application for demonstration of Database connection.

Name of Course	BCA Second Year
Semester	IV Semester
Name of Subject	Desktop Publishing II
Subject Code	S4.SEC.1 (1)

Contents:

Lesson 1: Introduction to Adobe Photoshop

1. About Photoshop
2. Navigating Photoshop
3. Menus and panels
4. Opening new files
5. Opening existing files

Lesson 2: Getting Started with Photoshop

1. Exploring the Toolbox
2. The New CS4 Applications Bar & the Options Bar
3. Exploring Panels & Menus
4. Creating & Viewing a New Document
5. Customizing the Interface
6. Setting Preferences

Lesson 3: Working with Images

1. Zooming & Panning an Image
2. Working with Multiple Images, Rulers, Guides & Grids
3. Undoing Steps with History
4. Adjusting Color with the New Adjustments Panel
5. The New Masks Panel & Vibrance Color Correction Command
6. The New Note Tool & the Save for Web & Devices Interface
7. The New Auto-Blend & Auto-Align Layers Commands
8. The New 3D Commands\

Lesson 4: RESIZING & CROPPING IMAGES

1. Understanding Pixels & Resolution
2. The Image Size Command
3. Interpolation Options
4. Resizing for Print & Web
5. Cropping & Straightening an Image
6. Adjusting Canvas Size & Canvas Rotation

Lesson 5: WORKING WITH BASIC SELECTIONS

1. Selecting with the Elliptical Marquee Tool
2. Using the Magic Wand & Free Transform Tool
3. Selecting with the Regular & Polygonal Lasso Tools
4. Combining Selections
5. Using the Magnetic Lasso Tool
6. Using the Quick Selection Tool & Refine Edge
7. Modifying Selections

Lesson 6: GETTING STARTED WITH LAYERS

1. Understanding the Background Layer
2. Creating, Selecting, Linking & Deleting Layers
3. Locking & Merging Layers
4. Copying Layers, Using Perspective & Layer Styles
5. Filling & Grouping Layers
6. Introduction to Blending Modes
7. Blending Modes, Opacity & Fill
8. Creating & Modifying Text

Practical: Photo Shop Lab

1. Create your Visiting card

2. Create Cover page for any text book
3. Create a Paper add for advertising of any commercial agency
4. Design a Passport photo
5. Create a Pamphlet for any program to be conducted by an organization
6. Create Broacher for you college
7. Create Titles for any forthcoming film
8. Custom shapes creation
9. Create a Web template for your college
10. Convert color photo to black and white photo
11. Enhance and reduce the given Image size
12. Background changes
13. Design Box package cover
14. Design Texture and patterns
15. Filter effects & Eraser effects

REFERENCES

1. Adobe Photoshop 7.0, Contributor:Adobe Systems, Edition: illustrated, Publisher: Adobe Press, 2002, ISBN 0321115627, 9780321115621

CORELDRAW

1. BASICS OF CORELDRAW

Introduction-Getting Started-Creating A New File - Title Bar-Menu Bar-Work Area-Printable Page-Property Bar-Page Counter Bar-Colour Palette-Toolbox-Status Bar-Drawing Figures-Lines-Ellipse-Circles-Rectangle-Square-Polygon-Saving-Closing-Opening-Views-Normal View-Preview-Wire Frame View-Draft View-Zoom-View Manager-Creating a View.

2. DRAWING

Introduction - Toolbox-Selecting an Object-Resizing an Object-Moving an Object-Changing the Shape-Combining Two Objects-Skewing-Welding the Objects-Blending-Curve Lines-Straight Lines-Continuing a Line-View Mode-Changing-Media Tool-Rotating An Object-Grouping-Fill Tool Fly Out-Filling-Spray Mode.

3. TEXT

Introduction-Text Tool-Entering Artistic Text-Entering Paragraph Text-Converting Text-Formatting Text-Changing the Font Size-Arranging Objects-Ordering The Objects-Changing the Font-Bullets-Decorating the Text-Webdings-Text Editor-Opening-Changing the Alignment-Type Style-Spell Checking-Grammer-Searching Synonyms-Find-Replace-Editing-Kerning-Formatting Characters.

4. IMAGE

Bitmap Images-Vector Image-Resizing-Rotating-Skewing-Moving-Cropping-Importing Images-Adding Special Effects-Converting to Bitmap-Exporting Images.

5. PAGE LAYOUT

Changing the Page Size-Changing the Layout-Appling Styles-Appling Bitmaps to the Background - Changing the Background-Adding a Page Frame-Moving Between Pages.

Practical: Corel draw

1. How to insert a picture in the existing image background?
2. Create a 3D text in Corel Draw
3. Create an advertisement for a Admission process for colleges in Corel
4. Design a business card for a company embed photo in it.
5. Design a banner for a marriage function

Name of Course	BCA Second Year
Semester	IV Semester
Name of Subject	Web Development using XML
Subject Code	S3.SEC.1 (2)

1. Introduction to XML

- How is XML used?
- Rules of XML
- XML Syntax
- XML Declarations
- XML tags
- XML Document
- Elements
- Tags and attributes
- Entity references
- Comments
- Processing instructions
- CDATA sections
- Well Formed XML Documents
- XML DTD's
- XML Schemas
- Using XML Parser
- XSL

2. XML DOM

- DOM Introduction
- DOM Nodes
- DOM Accessing
- DOM Node Info
- DOM Node List
- DOM Traversing
- DOM Navigating
- DOM Get Values -
- DOM Change Nodes
- DOM Remove Nodes
- DOM Replace Nodes
- DOM Create Nodes
- DOM Add Nodes
- DOM Clone Nodes
- DOM Examples

3. XML DTD

- DTD Introduction
- DTD Building Blocks
- DTD Elements
- DTD Attributes
- DTD Elements vs Attribute
- DTD Entities
- DTD Examples

4. XSLT

- XSLT Introduction
- XSL Languages
- XSLT Transform
- XSLT <template>
- XSLT <value-of>
- XSLT <for-each>
- XSLT <sort>

XSLT <if>
XSLT <choose>
XSLT Apply
XSLT on the Client
XSLT on the Server
XSLT Edit XML
XSLT Examples

References

1. XML in a Nutshell by Harold, Elliotte Rusty and W. Scott Means. 2004. , 3rd Edition. O'Reilly & Associates. 689 p. ISBN 0596007647.
2. Beginning XML by Danny Ayers, Joe Fawcett, and Liam R. E. Quin, 5th Edition, Wrox Publication, January 2012.
3. Learning XML by Erik T. Ray O'Reilly Media 1st edition 2001.

Name of Course	BCA Second Year
Semester	IV Semester
Name of Subject	System Administration and Maintenance
Subject Code	S3.SEC.1 (3)

Part I (Linux/Unix) (8L)

1. Basics of operating system, services,
2. Installation and configuration, maintenance
3. What is linux/unix Operating systems
4. Kernel, API, cli, gui,
5. Difference between linux/unix and other operating systems
6. Features and Architecture
7. Linux features, advantages, disadvantages

Part II (Windows)(8L)

1. Windows as operating system, history, versions.
2. PC hardware, BIOS, Devices and drivers,
3. Kernel Configuration and building
4. Application installation, configuration and maintenance
5. Server services and Client services
6. Difference between WindowsXP/windows7 and windows server 2003/2008

Software Lab Based on System Administration and Maintenance

Linux:

1. Linux Desktop tour. Configuring desktop environment and desktop settings.
2. Basic Commands
3. Terminal, shell
4. Cat, ls, cd, date, cal, man, echo, pwd, Mkdir, rm, rmdir Ps, kill
5. Package Installation
6. Synaptic package manager

Windows:

1. Creating users: Admin and regular.
2. Path of their personal files. Adding and changing passwords.
3. Difference between workgroup and domain.
4. Concept of roles.
5. user profiles – creating and roaming
6. Concept of Active Directory. Creating active directory in windows 2003/2008.
7. Process and Disk management
8. Windows Task manager. File systems – NTFS, FAT.
9. Services
10. Control Panel
11. C:/program Files, C:/system C:/windows Add /remove new hardware (like printer),
12. Add/remove new programmes.
13. Network Administration
14. Ipconfig, Ping, tracert, route, hostname
15. net, netstat, whoami
16. Set manual IP address, check connectivity – ipv4, ipv6
17. Administrator Tools
18. Control Panel -Administrative Tools
19. Computer Management, Local security Policy, Performance Monitor, Task
20. Scheduler, Antivirus and firewall.
21. Misc -> Start->Accessories->System tools -> All options (Remote desktop,
22. backup/restore etc.)
23. LAN sharing printer, files and folder over the network.



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED [M.S.]

Choice Based Credit System (CBCS Pattern)

Faculty of Computer Studies

Syllabus of Bachelor of Computer Application (BCA) Third Year

Effective from Academic Year (2018-2019)

Under Graduate (UG) Program

Semester	Subject Code	Course Name	Credit		Total Credits
			Internal	External	
Semester – V	S5.CC.1	Windows Programming with C#.NET	1	3	4
	S5.CC.2	Advance Java	1	3	4
	S5.CC.3	Linux and Shell Programming	1	3	4
	S5.CC.4	Project	1	3	4
	S5.CC.5	Elective: 1. Cloud Computing 2. Distributed Computing 3. Digital Image Processing	1	3	4
	S5.SEC.1	Skills Enhancement Course (SEC) 1. Java script 2. MySQL 3. Accounting with Tally		2	2
	S5.Lab 1	Advance Java		2	2
	S5.Lab 2	Linux and Shell Programming		2	2
	S5.Lab 3	C#.NET		2	2
		Environmental Studies			
	TOTAL			28	
Semester – VI	S6.CC.1	Adv. Networking Concept	1	3	4
	S6.CC.2	Software Engineering	1	3	4
	S6.CC.3	Linux Administration	1	3	4
	S6.CC.4	Software Testing	1	3	4
	S6.CC.5	Elective: 1. Mobile Communication 2. Data Mining and Data warehousing 3. Enterprise Resource Planning (ERP)	1	3	4
	S6.SEC.1	Skill Enhancement Course (SEC) 1. SQL Server 2. Macromedia Flash 3. Android Programming		2	2
	S6.Lab 1	Linux Administration		2	2
	S6.Lab 2	Software Testing		2	2
	S6.Lab 3	Seminar		2	2
		TOTAL			28

Name of Course	BCA Third Year
Semester	V Semester
Name of Subject	Windows Programming with C#.NET
Subject Code	S5.CC.1

Salient Features:

1. To understand the DOTNET framework.
2. To gain understanding of windows programming.
3. To teach student application development technology.

Utility of Course:

1. To impart the knowledge on basics concepts of object oriented programming.
2. To outline the various characteristics of c#.
3. To provide the familiarity in the concept of developing window application.
4. To converse an idea of creating application using ADO.Net.
5. To convey the idea of CLR and .Net framework.

Learning Objectives:

1. To develop background knowledge as well as core expertise in C#.
2. To understand the windows form creation and provide knowledge for creating windows applications.
3. To learn the object oriented concepts.

Prerequisites:

1. Adequate knowledge of Fundamental of C or C++.
2. Adequate knowledge of Basics of DBMS.

UNIT – I

1.	Introduction	Lectures	Ref. No.
	a) Introduction to .Net Technology & Framework	01	1, 2
	b) .Net Architecture	02	1, 2
	c) Common Language Runtime(CLR)	01	1, 2
	d) IDE Components	03	2
	e) Intellisense	01	2
	f) Project Types	01	2
	g) Java vs C#	01	1

References:

Sr. No.	Name of the Book	Author	Publication
1.	Programming in C#	E Balagurusamy	Mc Graw Hill
2.	Visual C#.Net	C Muthu	Mc Graw Hill

UNIT – II

2.	Windows Applications and Windows Controls	Lectures	Ref. No.
	a) Important Classes Used in Windows	01	2
	b) Creating and Customizing Windows Form	02	1
	c) TextBox and Label Control	01	2
	d) Button, CheckBox and RadioButton	02	2
	e) ListBox and ComboBox control	02	2
	f) Menus and Dialog Boxes	03	2

References:

Sr. No.	Name of the Book	Author	Publication
1.	Programming in C#	E Balagurusamy	Mc Graw Hill
2.	Visual C#.Net	C Muthu	Mc Graw Hill

UNIT- III

3.	Functions, Arrays and Strings	Lectures Require	Ref. No.
	a) C# Function	02	1, 2
	b) Call by Value & Call by Reference	02	1, 2
	c) Out Parameter	01	1, 2
	d) Array and ArrayList class	02	1,2
	e) Jagged Array	01	2
	f) String Class	01	1

References:

Sr. No.	Name of the Book	Author	Publication
1.	Programming in C#	E Balagurusamy	Mc Graw Hill
2.	Visual C#.Net	C Muthu	Mc Graw Hill

UNIT- IV

4.	Properties, Indexers, Delegates & Events	Lectures Require	Ref. No.
	a) Properties	02	1, 2
	b) Indexers	02	1, 2
	c) Delegates	01	1, 2
	d) Multicast Delegates	01	1,2
	e) Custom Events		1,2

References:

Sr. No.	Name of the Book	Author	Publication
1.	Programming in C#	E Balagurusamy	Mc Graw Hill
2.	Visual C#.Net	C Muthu	Mc Graw Hill

UNIT V

5.	Namespace, interface & Exception handling	Lectures Require	Ref. No.
	a) Creating & using Namespace(DLL library)	02	2
	b) Creating & using interface	02	1, 2
	c) Try Catch Block	02	1, 2
	d) Using Finally Block	01	1,2
	e) Custom Exception	01	1,2

References:

Sr. No.	Name of the Book	Author	Publication
1.	Programming in C#	E Balagurusamy	Mc Graw Hill
2.	Visual C#.Net	C Muthu	Mc Graw Hill

UNIT VI

6.	Database Connectivity	Lectures Required	Ref. No.
	a) Introduction ADO.Net	02	2
	b) Advantages of ADO.Net	01	2
	c) Developing a Simple ADO.NET Based	02	2
	d) Retrieving & Updating Data From Tables	01	2
	e) Disconnected Data Access Through Dataset Objects	02	2

References:

Sr. No.	Name of the Book	Author	Publication
1.	Programming in C#	E Balagurusamy	Mc Graw Hill
2.	Visual C#.Net	C Muthu	Mc Graw Hill

Name of Course	BCA Third Year
Semester	V Semester
Name of Subject	Advance Java Programming
Subject Code	S5.CC.2

Salient Features:

- To understand the Windows Programming with AWT and Applet
- To gain understanding of windows and web based programming.
- To teach student windows based and web based application development technology.

Utility of Course:

- To impart the knowledge on basics concepts of multithreading programming.
- To outline the various AWT classes.
- To provide the familiarity in the concept of developing window and web based application.
- To converse an idea of creating web based application using Servlet and JSP

Learning Objectives:

- To develop background knowledge as well as core expertise AWT, Frames, Applet etc.
- To understand the dynamic web page creation and provide knowledge for creating Dynamic Websites.
- To learn the Servlet and JSP.

Prerequisites:

- Adequate knowledge of Fundamental of C or C++ and Java.
- Adequate knowledge of Basics of DBMS.
- Adequate knowledge of HTML.

Unit – I

1.	Multithreading	Lectures	Ref. No.
1.1	Creating and Executing Multiple Threads	02	1, 2,3
1.2	Thread Life Cycle	01	1, 2,3
1.3	Thread Methods and Thread Priorities	02	1, 2,3
1.4	Thread Synchronization	02	1, 2,3

References:

Sr. No.	Name of the Book	Author	Publication
1.	Java The Complete Reference	Herbert Schildt	Mc Graw Hill
2.	Mastering Java2 J2SE1.4	John Zukouski	BPB Publication
3.	JAVA 2,J2SE 1.4	Dave Evans	Sybex

Unit – II

2.	Working with Frames, AWT Controls and Events	Lectures Required	Ref. No.
	a) Frame class and its Methods	01	1, 2,3
	b) Layout Managers	03	1, 2,3
	c) Creating AWT controls-Button, TextField, Label, List, ComboBox	03	1, 2,3
	d) Delegation Based Event Handling	01	1, 2,3
	e) Event Classes and Interfaces	01	1, 2,3
	f) Action Event and Mouse Event	01	1, 2,3
	Key Event and Window Event	01	1, 2,3

References:

Sr. No.	Name of the Book	Author	Publication
1.	Java The Complete Reference	Herbert Schildt	Mc Graw Hill
2.	Mastering Java2 J2SE1.4	John Zukouski	BPB Publication
3.	JAVA 2,J2SE 1.4	Dave Evans	Sybex

Unit- III

3.	Applet Programming	Lectures Require	Ref. No.
	a) Creating and executing Applet	01	1, 2,3
	b) Applet Life Cycle	01	1, 2,3
	c) Passing Parameters to an Applet	01	1, 2,3
	d) Graphics class		1, 2,3
	e) JApplet	01	1, 2,3

References:

Sr. No.	Name of the Book	Author	Publication
1.	Java The Complete Reference	Herbert Schildt	Mc Graw Hill
2.	Mastering Java2 J2SE1.4	John Zukouski	BPB Publication
3.	JAVA 2,J2SE 1.4	Dave Evans	Sybex

Unit- IV

4.	Graphics Programming Using Swing	Lectures Require	Ref. No.
	a) Working with 2D Basic Shapes	02	1, 2,3
	b) Using Color	01	1, 2,3
	c) Using Font	01	1, 2,3
	d) Displaying Images	01	1, 2,3

References:

Sr. No.	Name of the Book	Author	Publication
1.	Java The Complete Reference	Herbert Schildt	Mc Graw Hill

2.	Mastering Java2 J2SE1.4	John Zukouski	BPB Publication
3.	JAVA 2,J2SE 1.4	Dave Evans	Sybex

Unit V

5.	Java Collection	Lectures Require	Ref. No.
	a) Collections and Hierarchy of Collection Framework	02	1, 2,3
	b) Collection Interface	01	1, 2,3
	c) ArrayList and LinkedList	02	1, 2,3
	d) Difference between ArrayList and Vector	01	1, 2,3
	e) Queue and PriorityQueue	02	1, 2,3
	Hashtable	01	1, 2,3

References:

Sr. No.	Name of the Book	Author	Publication
1.	Java The Complete Reference	Herbert Schildt	Mc Graw Hill
2.	Mastering Java2 J2SE1.4	John Zukouski	BPB Publication
3.	JAVA 2,J2SE 1.4	Dave Evans	Sybex

Unit VI

6.	Servlet and JSP	Lectures Required	Ref. No.
	a) Web Terminology - Static and Dynamic webpage	01	1, 2,3
	b) Installing Apache Tomcat 7.0	01	1, 2,3
	c) Servlet vs CGI and Servlet Life Cycle	01	1, 2,3
	d) Handling get and post request	02	1, 2,3
	e) Advantage of JSP over Servlet	01	1, 2,3
	d) JSP Scripting Elements	01	1, 2,3
	e) JSP Implicit Objects	01	1, 2,3
	f) JSP Directive Elements	01	1, 2,3

References:

Sr. No.	Name of the Book	Author	Publication
1.	Java The Complete Reference	Herbert Schildt	Mc Graw Hill
2.	Mastering Java2 J2SE1.4	John Zukouski	BPB Publication
3.	JAVA 2,J2SE 1.4	Dave Evans	Sybex

Name of Course	BCA Third Year
Semester	V Semester
Name of Subject	Linux and Shell Programming
Subject code	S5.CC.3

Silent Features:

Linux is a powerful, free and open source code Operating System available in market. It can be used for both purposes like desktop and server use. So from smartphones to cars, supercomputers and home appliances, the Linux operating system is everywhere. So by learning this subject student will be capable, not only to learn the basic functions and tasks of operating system but also they can develop and release their own software on internet without any cost.

Objectives:

- This course shall build a platform for students to start their own enterprise
- For Making Student Job Ready
- To become familiar with open source software and user interface.
- To securely handle OS without any viruses and malwares.
- For easily use free software available on internet.
- To understand the basic operating system command.
- To understand the basic concept of shell programming

Utility of the course:

- Awareness of existing demanding trends in IT industry in order to get placement & research in open source market.
- Understand the Linux OS architecture.
- Install and use different types of distributions available in market.

Prerequisite:

1. Basics of Operating System covered in Semester I.

UNIT-I

Sr. No.	Introduction		Lectures Required	Ref. No
1	1.1	Features of Linux OS	1	1,2,3
	1.2	Features of Linux OS	2	1,2,3
	1.3	Installation steps of Linux	2	1,2,3
	1.4	Linux kernel	1	1,2
	1.5	Linux boot loader	1	1
	1.6	Booting process of Linux OS	1	1

References:

Sr. No	Name of Book	Writer	Publication
1	Red Hat Linux 7 Unleashed	Bill Ball ,David Pitts	Techmedia SAMS publication
2	UNIX System Administration Handbook	Evi Nemeth, Garth Snyder, Scott Seebass	Person Education Asia (LPE)(III Edition)
3	Red Hat Linux and Fedora Unleashed	Bill Ball and Hoyt Duff	

UNIT-II

Sr. No.	Working with Linux OS		Lectures Required	Ref. No
2)	2.1	Working with the Linux File System	1	1,2,3
	2.2	Logging into and working With Linux	2	1,2,3
	2.3	Changing User Information	2	1,2,3
	2.4	Linux Shell	1	1,2,3
	2.5	Text Editors in Linux	2	1,2
	2.6	Working with permissions	1	1,3

References:

Sr. No	Name of Book	Writer	Publication
1	Red Hat Linux 7 Unleashed	Bill Ball ,David Pitts	Techmedia SAMS publication
2	UNIX System Administration Handbook	Evi Nemeth,Garth Snyder,Scott Seebass	Person Education Asia (LPE)(III Edition)
3	Red Hat Linux and Fedora Unleashed	Bill Ball and Hoyt Duff	

UNIT-III

Sr. No	Linux Commands and Utilities		Lectures Required	Ref. No
3	3.1	Adduser , alias, at ,cat , cd, chmod , chown ,cp, cpio, dd,d f,dc,dir,du,find,finger,grep,zip,unzip,gzip,halt,hostname,ifconfig,kill,l ogin,look, lpc, lpd ,lpr, lprm, ls, mail, man,mde, mkdir,mor,mount, mv,netstat,passwd,ping, ps,pwd,rm, rmdir,shutdown,sort, su,tar,tree,moun, umount,unzip,vi,wc, who,whoami,zip.	9	1,2, 3,

References:

Sr. No	Name of Book	Writer	Publication
1	Red Hat Linux 7 Unleashed	Bill Ball ,David Pitts	Techmedia SAMS publication
2	UNIX System Administration Handbook	Evi Nemeth,Garth Snyder,Scott Seebass	Person Education Asia (LPE)(III Edition)
3	Red Hat Linux and Fedora Unleashed	Bill Ball and Hoyt Duff	

UNIT IV

Sr. No.	Basic Shell Scripting		Lectures Required	Ref. No
4)	4.1	Types of shells	2	1,2,3
	4.2	Shell functionality, Environment	1	2,3
	4.3	Writing First Script and executing basic script	2	2,3
	4.4	Variables	1	1,2
	4.5	Mathematical Expressions	2	2,3

References:

Sr. No	Name of Book	Writer	Publication
1	UNIX Shell programming	Kanetkar	BPB Publication
2	UNIX System Administration Handbook	Evi Nemeth,Garth Snyder,Scott Seebass	Person Education Asia (LPE)(III Edition)

UNIT-V

Sr. No.	Shell programming in Linux		Lectures Required	Ref. No
5)	5.1	Conditional Statements in shell Scripting.	2	1,2,
	5.2	Looping Statements in shell Scripting- While,For,Until	2	1,2
	5.3	Break and Continue	3	1,2
	5.4	Logical operators-AND,OR,NOT	2	1,2

References:

Sr. No	Name of Book	Writer	Publication
1	UNIX Shell programming	Bill Ball ,David Pitts	Techmedia SAMS publication
2	UNIX System Administration Handbook	Evi Nemeth,Garth Snyder,Scott Seebass	Person Education Asia (LPE)(III Edition)

UNIT-VI

Sr. No.	Functions and File Manipulations.		Lectures Required	Ref. No
6)	6.1	Processing File line by line	1	1,2
	6.2	Functions in Shell.	2	1,2,3
	6.3	Command line Arguments in shell Scripting	1	1,2,3
	6.4	Grep command and patterns	2	1,2,3

References:

Sr. No	Name of Book	Writer	Publication
1	UNIX Shell programming	Bill Ball ,David Pitts	Techmedia SAMS publication
2	UNIX System Administration Handbook	Evi Nemeth,Garth Snyder,Scott Seebass	Person Education Asia (LPE)(III Edition)

Name of Course	B.C.A. Third Year
Semester	V Semester
Name of Subject	Cloud Computing
Subject Code	S5.CC.5 (Core Course Elective – I)

Silent Features:

It is most demanding area in IT industry. Every organization now days, trying to migrate to cloud computing from different perspectives. It is associated with architectural modelling and service providing. Other areas like resource pooling, cost economics, elasticity of organization also use clouds. Thus it has become extremely important to understand the key defining features of cloud computing.

Learning Objectives:

- To Study basics of cloud computing, and comprehend the terminology, tools and technologies associated with today's top cloud platforms.
- To provide the programmer's perspective of working of Cloud Computing.
- Implement Simple Cloud programs to solve simple problems.

Utility of the course:

Awareness of existing demanding trends for Clouds and Virtualizations in the IT industry in order to get placement as well as in research

Prerequisite:

Knowledge about Computer Hardware and Networking.

UNIT – I

1.	Enterprise computing: a retrospective		Lecturers Required	Ref. No.
	1.1	Introduction	1	1
	1.2	Mainframe architecture	2	1
	1.3	Client-server architecture	2	1
	1.4	3-tier architectures with TP monitors	2	1

References:

1)	Enterprise Cloud Computing: Technology, Architecture, Application By Gautam Shroff
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UNIT – II

2.	The internet as a platform and Software as a service		Lecturers Required	Ref. No.
	2.1	Internet technology and web-enabled applications	2	1
	2.2	Web application servers	2	1
	2.3	Internet of services	2	1
	2.4	Emergence of software as a service	2	1
	2.5	Successful SaaS architectures	2	1
	2.6	Dev 2.0 platforms	2	1
	2.7	Cloud computing	2	1

References:

1.	Enterprise Cloud Computing: Technology, Architecture, Application By Gautam Shroff
----	--

UNIT – III

3.	Cloud computing platforms		Lecturers Required	Ref. No.
	3.1	Infrastructure as a service: Amazon EC2	3	1
	3.2	Platform as a service: Google App Engine	3	1
	3.3	Microsoft Azure	3	1

References:

1.	Enterprise Cloud Computing: Technology, Architecture, Application By Gautam Shroff
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UNIT – IV

4.	Web services, AJAX and mashups		Lecturers Required	Ref. No.
	4.1	Web services: SOAP and REST	2	1
	4.2	SOAP versus REST	2	1
	4.3	AJAX: asynchronous ‘rich’ interfaces	2	1
	4.4	Mashups: user interface services	2	1

References:

1.	Enterprise Cloud Computing: Technology, Architecture, Application By Gautam Shroff
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UNIT – V

5.	Data in the cloud		Lecturers Required	Ref. No.
	5.1	Relational databases	3	1
	5.2	Cloud file systems: GFS and HDFS	3	1
	5.3	BigTable, HBase and Dynamo	3	1
	5.4	Cloud data stores: Datastore and SimpleDB	3	1

References:

1.	Enterprise Cloud Computing: Technology, Architecture, Application By Gautam Shroff
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UNIT – VI

6.	MapReduce and extensions		Lecturers Required	Ref. No.
	6.1	Parallel computing	3	1
	6.2	The MapReduce model	3	1
	6.3	Parallel efficiency of MapReduce	3	1
	6.4	Relational operations using MapReduce	3	1
	6.5	Enterprise batch processing using MapReduce	3	1

References:

1.	Enterprise Cloud Computing: Technology, Architecture, Application By Gautam Shroff
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Name of Course	B.C.A. Third Year
Semester	V Semester
Name of Subject	Distributed Computing
Subject Code	S5.CC.5 (Core Course Elective – II)

Pre-requisites:

1. Computer Networks
2. Operating Systems
3. C Programming

Course / Learning Objectives:

1. Introduce distributed computing environment.
2. Emphasize on design techniques and constraints of distributed computing environment.
3. Emphasize on analysis of distributed computing environment.

Course Outcomes/ Utility of Course:

1. Distinguish between distributed computing and parallel computing.
2. Understand concepts of architectural Styles, Communication, and Synchronization.
3. Demonstrate different naming & synchronization technologies
4. Explore various distributed concepts.

Salient Features:

1. Helps to understand Concepts of distributed computing environment
2. Motivate to Use distributed architectures instead of central and / or parallel
3. Help to understand working of various existing distributed systems.

UNIT – I

1.	Introduction		Lecturers Required	Ref. No.
	1.1	Definition of distributed system	1	1
	1.2	Goals	2	1
	1.3	Types of Distributed systems	4	1

References:

2)	Distributed Systems Principles and Paradigms, Second Edition- by Andrew S. Tanenbaum, Maarten Van Steen. PHI ISBN-978-81-3498-4
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UNIT – II

2.	Architectures		Lecturers Required	Ref. No.
	2.1	Architectural styles	02	1
	2.2	System Architectures: 2.2.1 Centralized Architectures, 2.2.2 Decentralized Architectures 2.2.3 Hybrid Architectures	03	1

	2.3	Architectures Versus Middleware	03	1
		2.3.1 Interceptors 2.3.2 General Approaches to Adaptive Software	03	1
	2.4	Self-Management in Distributed systems 2.4.1 The Feedback Control Model 2.4.2 Example: Systems Monitoring with Astrolabe	03	1

References:

1)	Distributed Systems Principles and Paradigms, Second Edition- by Andrew S. Tanenbaum, Maarten Van Steen. PHI ISBN-978-81-3498-4
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UNIT – III

3.	Processes		Lecturers Required	Ref. No.
	3.1	Threads	03	1
	3.2	Virtualization	03	1
	3.3	Clients	03	1
	3.4	Servers	03	1
	3.5	Code Migration	03	1

References:

1)	Distributed Systems Principles and Paradigms, Second Edition- by Andrew S. Tanenbaum, Maarten Van Steen. PHI ISBN-978-81-3498-4
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UNIT – IV

4.	Communication		Lecturers Required	Ref. No.
	4.1	Fundamentals	01	1
	4.2	Remote Procedure Call 4.2.1 Basic RPC Operation 4.2.2 Parameter Passing 4.2.3 Asynchronous RPC	03	1
	4.3	Message oriented communication 4.3.1 Message Oriented Transient Communication (Berkeley Sockets) 4.3.2 Message Oriented Persistent Communication (Message Queuing Model)	04	1
	4.4	Stream oriented communication	03	1
	4.5	Multicast communication	04	1

References:

1)	Distributed Systems Principles and Paradigms, Second Edition- by Andrew S. Tanenbaum, Maarten Van Steen. PHI ISBN-978-81-3498-4
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UNIT – V

5.	Naming		Lecturers Required	Ref. No.
	5.1	Names, Identifiers, and Addresses	02	1
	5.2	Flat Naming 5.2.1 Simple Solutions Broadcasting & Multicasting Forwarding Pointers	02	1
	5.3	Structured Naming	02	1
	5.4	Attribute-Based Naming	02	1

References:

1)	Distributed Systems Principles and Paradigms, Second Edition- by Andrew S. Tanenbaum, Maarten Van Steen. PHI ISBN-978-81-3498-4
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UNIT – VI

6.	Synchronization		Lecturers Required	Ref. No.
	6.1	Clock synchronization: 6.1.1 Physical clocks 6.1.2 Global Positioning System 6.1.3 Clock synchronization Algorithms	02	1
	6.2	Logical Clocks 6.2.1 Lamport's Logical Clock 6.2.2 Vector Clocks	03	1
	6.3	Mutual Exclusion: 6.3.1 Centralized Algorithm 6.3.2 A Decentralized Algorithm 6.3.3 A Distributed Algorithm 6.3.4 A Token Ring Algorithm	05	1
	6.4	Election Algorithms 6.5.1 Traditional Election Algorithms (Bully, Ring Algorithm) 6.5.2 Election in Wireless Environments	02	1

References:

1)	Distributed Systems Principles and Paradigms, Second Edition- by Andrew S. Tanenbaum, Maarten Van Steen. PHI ISBN-978-81-3498-4
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Name of Course	B.C.A. Third Year
Semester	V Semester
Name of Subject	Digital Image Processing
Subject code	S5.CC.3 (Core Course Elective – III)

Prerequisites:

- Must learn how to code. Python and C++ languages are highly recommended
- Must also learn how to read programming languages that you do not know
- Must have a background on discrete digital signal processing. Discrete digital signal processing will help you understand concepts such as how filtering really works. It can also help you understand how computers perceive an image.
- Finally, try running source codes available on the internet and create such codes on your own.

Course Objectives:

- To learn fundamental concepts of Digital Image Processing
- To study basic image processing operations
- To understand image analysis algorithms
- To expose students to current applications in the field of digital image processing

Course Outcomes:

- Review the fundamental concepts of a digital image processing system.
- Analyze images in the frequency domain using various transforms.
- Evaluate the techniques for image enhancement and image restoration.
- Categorize various compression techniques.
- Interpret Image compression standards.
- Interpret image segmentation and representation techniques.

Salient Features:

- Confidence building
- Ability to understand the problem and find solutions
- Developing and maintaining projects

UNIT-I

Sr. No.	Introduction to MATLAB		Lectures Required	Ref. No
1	1.1	Introduction	1	2,3
	1.2	Advantages and Disadvantages of MATLAB	2	1,2,3
	1.3	MATLAB Environment	2	1,2,3
	1.4	Using MATLAB Scratch Pad	1	2,3,4
	1.5	Variables and Arrays	2	2,4
	1.6	Multidimensional Arrays	1	2,4
	1.7	Scalar and Array Operations	2	2,4

References:

Sr. No	Name of Book	Writer	Publication
1	Digital Image Processing	R.C. Gonzalez, R.E. Woods and S.L. Eddins	Second Edition, Pearson Education
2	Digital Image Processing using MATLAB	R.C. Gonzalez, R.E. Woods and S.L. Eddins	Second Edition, Pearson Education
3	Fundamentals of Image Processing	A.K. Jain	PHI publication
4	MATLAB Programming for Engineers	Stephen J. Chapman	Third Edition, Thomson Learning

UNIT-II

Sr. No.	Introduction to Digital Image Representation		Lectures Required	Ref. No
2)	2.1	Elements of Digital Image Processing System	2	1,2,3,4
	2.2	Digital Image Representation	2	1,2,3,4
	2.3	Reading, displaying and writing images	3	1,2,3,4
	2.4	Data classes and Image types	2	1,2,3,4
	2.5	Converting between data classes and image types	3	2,4
	2.6	Introduction to M-function Programming	3	2,4

References:

Sr.No	Name of Book	Writer	Publication
1	Digital Image Processing	R.C. Gonzalez, R.E. Woods and S.L. Eddins	Second Edition, Pearson Education
2	Digital Image Processing using MATLAB	R.C. Gonzalez, R.E. Woods and S.L. Eddins	Second Edition, Pearson Education
3	Fundamentals of Image Processing	A.K. Jain	PHI publication
4	MATLAB Programming for Engineers	Stephen J. Chapman	Third Edition, Thomson Learning

UNIT-III

Sr. No.	Intensity Transformation and Spatial Filtering		Lectures Required	Ref. No
3)	3.1	Background	1	1,2,3,4
	3.2	Intensity Transformation Functions Using imadjust() Using log()	4	1,2,3,4
		3.3	Histogram Processing and function plotting	4
	3.4	Spatial filtering Linear spatial filtering Non-Linear spatial filtering	6	1,2,3,4

References:

Sr. No	Name of Book	Writer	Publication
1	Digital Image Processing	R.C. Gonzalez, R.E. Woods and S.L. Eddins	Second Edition, Pearson Education
2	Digital Image Processing using MATLAB	R.C. Gonzalez, R.E. Woods and S.L. Eddins	Second Edition, Pearson Education
3	Fundamentals of Image Processing	A.K. Jain	PHI publication
4	MATLAB Programming for Engineers	Stephen J. Chapman	Third Edition, Thomson Learning

UNIT-IV

Sr. No.	Frequency Domain Processing		Lectures Required	Ref. No
4)	4.1	Introduction to Discrete Fourier Transformation(DFT)	3	1,2,4
	4.2	Computing and visualizing 1D-DFT	2	1,2,4
	4.3	Computing and visualizing 2D-DFT	2	1,2,4
	4.4	Filtering in frequency domain	3	1,2,4

References:

Sr. No	Name of Book	Writer	Publication
1	Digital Image Processing	R.C. Gonzalez, R.E. Woods and S.L. Eddins	Second Edition, Pearson Education
2	Digital Image Processing using MATLAB	R.C. Gonzalez, R.E. Woods and S.L. Eddins	Second Edition, Pearson Education
3	Fundamentals of Image Processing	A.K. Jain	PHI publication
4	MATLAB Programming for Engineers	Stephen J. Chapman	Third Edition, Thomson Learning

UNIT-V

Sr. No.	Image Restoration		Lectures Required	Ref. No
5)	5.1	A model of image Degradation/Restoration Process	1	1,2,4
	5.2	Noise models	2	1,2,4
	5.3	Restoration Techniques	2	1,2,4
	5.4	Geometric Transformation	2	1,2,4
	5.5	Image Registration	1	1,2,4

References:

Sr. No	Name of Book	Writer	Publication
1	Digital Image Processing	R.C. Gonzalez, R.E. Woods and S.L. Eddins	Second Edition, Pearson Education
2	Digital Image Processing using MATLAB	R.C. Gonzalez, R.E. Woods and S.L. Eddins	Second Edition, Pearson Education
3	Fundamentals of Image Processing	A.K. Jain	PHI publication
4	MATLAB Programming for Engineers	Stephen J. Chapman	Third Edition, Thomson Learning

UNIT-VI

Sr. No.	Color Image Processing		Lectures Required	Ref. No
6)	6.1	Color Image Representation	1	1,2,3
	6.2	Converting to ther color spaces	1	1,2,3
	6.3	The Basics of color image processing	1	1,2,3
	6.4	Spatial filtering of color images	1	1,2,3

References:

Sr. No	Name of Book	Writer	Publication
1	Digital Image Processing	R.C. Gonzalez, R.E. Woods and S.L. Eddins	Second Edition, Pearson Education
2	Digital Image Processing using MATLAB	R.C. Gonzalez, R.E. Woods and S.L. Eddins	Second Edition, Pearson Education
3	Fundamentals of Image Processing	A.K. Jain	PHI publication
4	MATLAB Programming for Engineers	Stephen J. Chapman	Third Edition, Thomson Learning

Name of Course	BCA Third Year
Semester	V
Name of Subject	JavaScript
Subject Code	S5.SEC.1 (Elective – I)

Prerequisites:

1. Basic knowledge of object-oriented programming concepts
2. Basic knowledge of HTML

Course Objectives:

1. What JavaScript is and where it is used.
2. Basic programming concepts like variables, data types and conditional statements.
3. What functions are and why they're useful.
4. The basic syntax of the JavaScript programming language.
5. Implementation of different types of object in JavaScript.
6. To introduce concept of regular expression.

Course Outcomes:

1. Use operators, variables, arrays, control structures, functions and objects in JavaScript.
2. Identify popular JavaScript Libraries.
3. Use regular expressions for form validation.
4. Use Array, Math and String methods to access proper data.
5. To build dynamic web pages and web applications.

Salient Features:

1. Able to use concept of JavaScript to develop dynamic webpages
2. Able to use built in functions in web applications

Practical Assignments –

Sr. No.	Name of Assignment
1	Write a JavaScript program to print “Hello World”.
2	Write a JavaScript program to perform all arithmetic operations.
3	Write a JavaScript program to find out entered number is even or odd.
4	Write a menu driven program in JavaScript, which has following options (Use of switch statement). 1. Addition 2. Subtraction
5	Write a JavaScript program to display series 1, 2, ..., 10 using while loop.
6	Write a JavaScript program to display multiplication table of any number entered through the keyboard using do - while loop.

7	Write a JavaScript program to find the factorial value of any number entered through the keyboard using for loop.
8	Write a JavaScript program to demonstrate concept of global and local variables.
9	Write a recursive function in JavaScript to obtain the factorial value of any number entered
10	Write a JavaScript program to demonstrate array methods.
11	Write a JavaScript program to demonstrate math methods.
12	Write a JavaScript program to demonstrate string methods.
13	Write a JavaScript program to demonstrate concept of regular expression.

Reference:

Sr. No.	Name of the Book	Author	Publication
1	JavaScript 2.0 - The Complete	Thomas Powell and Fritz Schneider	McGraw-Hill 2 nd Edition

Name of Course	B.C.A. Third Year
Semester	V Semester
Name of Subject	MySQL
Subject Code	S5.SEC.1 (Elective – II)

Prerequisites:

- Basic knowledge of operating system & DBMS.

Course Objectives:

- To understand what is MySQL & its uses.
- To understand basic SQL queries.
- To understand different numerical, string & date handling function.
- Implementation and representation of different type relations in table.
- To understand back and restore procedure.
- To understand repairing database.

Course Outcomes:

- Detailed understanding of MySQL database.
- Knowledge of writing SQL queries.
- Knowledge of maintaining relation between table and database normalization.
- Understanding different numerical, string handling and date handling function.

Salient Features:

- Able to use concept database normalization.
- Able to use maintaining relationship between tables and joining table.

- 1) SQL* formatting commands
- 2) To create a table, alter and drop table.
- 3) To perform select, update, insert and delete operation in a table.
- 4) To make use of different clauses viz where, group by, having, order by, union and intersection,
- 5) To study different constraints.
- 6) To use oracle function viz aggregate, numeric, conversion, string function.
- 7) To understand use and working with joins.
- 8) To make use of transaction control statement viz rollback, commit and save point.
- 9) To make views of a table.
- 10) To make indexes of a table.
- 11) To understand working with PL/SQL
- 12) To implement Cursor on a table.
- 13) To implement trigger on a table

Books Recommended:

1. Baron Schwartz , High Performance MySQL, O'Reilly, 2012.
2. Vikram Vaswani , The Complete Reference MySQL , McGraw Hill Educations, 2004.

Name of Course	B.C.A. Third Year
Semester	V Semester
Name of Subject	Accounting with Tally
Subject Code	S5.SEC.1 (Elective – III)

Prerequisites:

- Basic knowledge of operating system.

Course Objectives:

- To understand Accounting and Accounting with Inventory.
- To understand Creating and understanding groups.
- To understand different types of ledgers.
- To understand different types of voucher types.
- To understand backup and restore procedure.
- To understand different reports.

Course Outcomes:

- Detailed understanding of Tally software.
- Knowledge of creating company and inventory.
- Knowledge of maintaining ledger, vouchers etc.
- Understanding different function of tally.

Salient Features:

- Able to use concept balance sheet.
- Able to use maintaining details accounting of the organization.

1. Demonstrate company creation.
 - Accounting only
 - Accounting with inventory
2. Demonstrate create/ display / Alter group.
 - Single group
 - Multiple groups
3. Demonstrate create / display / Alter ledger.
 - Single ledger
 - Multiple ledger
4. Demonstrate voucher type.
 - Create voucher type
 - Alter voucher
5. Demonstrate accounting voucher creation / deletion / cancellation
 - Payment voucher
 - Receipt voucher
 - Sales voucher
 - Purchase voucher
 - Contra entry
 - Debit Note
 - Credit note
 - Journal entry
6. Demonstrate backup facility.

- Single file
 - Multiple file
7. Demonstrate restore facility.
 - Single file
 - Multiple files
 8. Demonstrate multiple accounting print.
 - Account book
 - i. Individual ledger
 - ii. Single ledger
 - iii. Cash book
 - iv. Bank book
 9. Demonstrate export facility.
 10. Display reports
 - Balance sheet
 - Profit and loss account
 - Trial balance
 - Ledger
 11. Display trial balance by creating
 - New column
 - Alter column
 - Auto column
 12. Demonstrate create inventory item
 13. Demonstrate accounting features.

Name of Course	BCA Third Year
Semester	V Semester
Name of Subject	Advance Java Programming
Subject Code	S5.Lab1

Salient Features:

- To understand the Windows Programming with AWT and Applet
- To gain understanding of windows and web based programming.
- To teach student windows based and web based application development technology.

Utility of Course:

- To impart the knowledge on basics concepts of multithreading programming.
- To outline the various AWT classes.
- To provide the familiarity in the concept of developing window and web based application.
- To converse an idea of creating web based application using Servlet and JSP

Learning Objectives:

- To develop background knowledge as well as core expertise AWT, Frames, Applet etc.
- To understand the dynamic web page creation and provide knowledge for creating Dynamic Websites.
- To learn the Servlet and JSP.

Prerequisites:

- Adequate knowledge of Fundamental of C or C++ and Java.
- Adequate knowledge of Basics of DBMS.
- Adequate knowledge of HTML.

Practical List

1. Write a program for demonstration of creating multiple threads.
2. Write a program for demonstration of thread methods.
3. Write a program for demonstration of thread synchronization.
4. Write a program for demonstration of creating frame and layout managers.
5. Write a program for demonstration of using AWT controls.
6. Write a program for demonstration of Action Event.
7. Write a program for demonstration of creating Applet.
8. Write a program for demonstration of passing parameters to Applet.
9. Write a program for demonstration of accessing data from database.
10. Write a program for demonstration of modifying data from database.
11. Write a program for demonstration of ArrayList and LinkedList.
12. Write a program for demonstration of creating servlet application.
13. Write a program for demonstration of creating jsp application.

Name of Course	BCA Third Year
Semester	V Semester
Name of Subject	Linux and Shell Programming
Subject code	S5.Lab.2

Silent Features:

Linux is a powerful, free and open source code Operating System available in market. It can be used for both purposes like desktop and server use. So from smartphones to cars, supercomputers and home appliances, the Linux operating system is everywhere. So by learning this subject student will be capable, not only to learn the basic functions and tasks of operating system but also they can develop and release their own software on internet without any cost.

Objectives:

- This course shall build a platform for students to start their own enterprise
- For Making Student Job Ready
- To become familiar with open source software and user interface.
- To securely handle OS without any viruses and malwares.
- For easily use free software available on internet.
- To understand the basic operating system command.
- To understand the basic concept of shell programming

Utility of the course:

- Awareness of existing demanding trends in IT industry in order to get placement & research in open source market.
- Understand the Linux OS architecture.
- Install and use different types of distributions available in market.

Prerequisite:

2. Basics of Operating System covered in Semester I.

PRACTICAL List:

- 1) Introduction to Red Hat Linux.
- 2) Red Hat installation.
- 3) Simple commands in Linux
(files and directory related commands-cat,cp,sort,touch,vi,mkdir,cd,rm ,rmdir, etc...)
- 4) WAP for Arithmetical operations in Shell Script
- 5) WAP for conditional Operators
- 6) WAP for Looping Statements.
- 7) WAP for Switch Case.
- 8) WAP for String operations.
- 9) WAP for File Handling.

Name of Course	B.C.A. Third Year
Semester	V Semester
Name of Subject	Windows Programming with C#.NET
Subject Code	S5.Lab.3

Salient Features:

- To understand the DOTNET framework.
- To gain understanding of windows programming.
- To teach student application development technology.

Utility of Course:

- To impart the knowledge on basics concepts of object oriented programming.
- To outline the various characteristics of c#.
- To provide the familiarity in the concept of developing window application.
- To converse an idea of creating application using ADO.Net.
- To convey the idea of CLR and .Net framework.

Learning Objectives:

- To develop background knowledge as well as core expertise in C#.
- To understand the windows form creation and provide knowledge for creating windows applications.
- To learn the object oriented concepts.

Prerequisites:

- Adequate knowledge of Fundamental of C or C++.
- Adequate knowledge of Basics of DBMS.

Practical List

1. Write a program for demonstration of creating simple windows application.
2. Write a program for demonstration of Text Box and Button control.
3. Write a program for demonstration of List Box and Combo Box Control.
4. Write a program for demonstration of designing Menus.
5. Write a program for demonstration of using dialog boxes.
6. Write a program for demonstration of C# functions.
7. Write a program for demonstration of Array.
8. Write a program for demonstration of creating properties.
9. Write a program for demonstration of creating Indexers.
10. Write a program for demonstration of creating Delegates.
11. Write a program for demonstration of creating custom namespace.
12. Write a program for demonstration of handling exception.
13. Write a program for demonstration of creating and using custom exception.
14. Write a program for demonstration of accessing data from database.
15. Write a program for demonstration of modifying data from database.

Name of Course	BCA TY
Semester	VI Semester
Name of Subject	Advance Networking Concepts
Subject Code	S6.CC.1

Prerequisites:

- Understanding of how connection oriented and connectionless network operate.
- Basic understanding of network.

Course Objectives:

- To understand the basics of wireless voice and data communication technologies.
- To study about the wireless communication Techniques.
- To understand different routing algorithms.
- To understand security and privacy issues in wireless environments.

Course Outcomes:

- Evaluate the usability of mobile devices such as smart phones.
- Select appropriate network technologies in commercial and enterprise applications.
- Assess the capabilities of next generation networks and role of network technologies.

Salient Features:

- Covers evolutionary path network communication from different generations.
- Detailed discussions on routing protocol and transport layer technologies.
- Brief overview of virtual LAN

UNIT-I

Sr. No.	Review of Basic Concepts		Lectures Required	Ref. No
1	1.1	What is Network, Benefits of Networking	1	1,2
	1.2	Network Architecture – Protocol Hierarchies	2	1,2
	1.3	Reference Model	2	1,2
	1.4	Connection oriented & Connectionless Services	1	1,2
	1.5	Underlying Technologies- IP Address, LAN & WAN	2	1,2

References:

Sr. No	Name of Book	Writer	Publication
1	Data and Computer Communications	William Stallings	Pearson Education
2	Computer Networks	Andrew S. Tanenbaum	Prentice Hall

UNIT-II

Sr. No.	LAN Hardware		Lectures Required	Ref. No
2)	2.1	Network Interface card	1	2

	2.2	Ethernet Technology 10 Base 2 & 10Base 5, 10 Base T	2	2
	2.3	Network Device Router & Switch	1	2
	2.4	Repeaters	2	2
	2.5	Wireless LAN	1	2

References:

Sr.No	Name of Book	Writer	Publication
1	Data and Computer Communications	William Stallings	Pearson Education
2	Computer Networks	Andrew S. Tanenbaum	Prentice Hall

UNIT-III

Sr. No.	The Internet Layer & Routing Protocols		Lectures Required	Ref. No
3)	3.1	IP-Datagram	1	1,2
	3.2	ICMP - Types of Messages	2	1,2
	3.3	BOOTP and DHCP	2	1,2
	3.4	Routing Protocol	2	1,2
	3.5	RIP, OSPF, BGP	2	1,2

References:

Sr.No	Name of Book	Writer	Publication
1	Data and Computer Communications	William Stallings	Pearson Education
2	Computer Networks	Andrew S. Tanenbaum	Prentice Hall

UNIT-IV

Sr. No.	The Transport Layer		Lectures Required	Ref. No
4)	4.1	The transport service- services primitives	2	1,2
	4.2	Sockets	2	1,2
	4.3	Elements of transport protocols	2	1,2
	4.4	TCP Frame Format	2	1,2
	4.5	UDP Protocol	1	1,2

References:

Sr. No	Name of Book	Writer	Publication
1	Data and Computer Communications	William Stallings	Pearson Education
2	Computer Networks	Andrew S. Tanenbaum	Prentice Hall

UNIT-V

Sr. No.	Client –server Model & Network Security		Lectures Required	Ref. No
5)	5.1	Client-Server Model	2	1,2
	5.2	Internet- Email	1	1,2
	5.3	Cryptography, symmetric key algorithm	2	1,2
	5.3	Firewalls	2	1,2
	5.5	Virtual Private Networks	2	1,2

References:

Sr. No	Name of Book	Writer	Publication
1	Data and Computer Communications	William Stallings	Pearson Education
2	Computer Networks	Andrew S. Tanenbaum	Prentice Hall

UNIT-VI

Sr. No.	Virtual LANs	Lectures Required	Ref. No
6)	6.1 Virtual LAN Concepts	1	1,2
	6.2 Trucking with ISL and 802.1Q	2	1,2
	6.3 VLAN Trucking Protocol (VTP)	2	1,2
	6.4 VLAN Configuration	1	1,2
	6.5 VTP Configuration	1	1,2

References:

Sr. No	Name of Book	Writer	Publication
1	CCENT/CCNA ICND1 (Second Edition)	Wendell Odom	Cisco Press
2	CCNA ICND2 (Third Edition)	Wendell Odom	Cisco Press

Name of Course	BCA Third Year
Semester	VI Semester
Name of Subject	Software Engineering
Subject code	S6.CC.2

Prerequisites:

- Adequate knowledge of programming languages.
- Must know the mathematical functions for developing and maintaining the mathematical algorithms.

Course Objectives:

- To develop software engineering skills and testing plans.
- To understand system concepts and its application in Software development.
- To enhance skills of designing and testing software.
- To learn technical skills to assure production of quality software.

Course Outcomes:

- Ability to learn various methods of software development.
- Ability to apply various software testing techniques

Salient Features:

- Improve your skills & build Confidence
- Ability to understand the problem and find solutions
- Lifelong learning and readily adapt to new software engineering environments.

UNIT-I

Sr. No.	Introduction to Software Engineering		Lectures Required	Ref. No
1	1.1	The Evolving Role of Software	2	1,2
	1.2	Software	1	1,2
	1.3	Software Characteristics	2	1,2
	1.4	Software Applications	2	1,2
	1.5	Software Evolution	2	1,2
	1.6	Software Crisis & Horizon	1	1,2
	1.7	Software Myths	2	1,2

References:

Sr. No	Name of Book	Writer	Publication
1	Software Engineering(5 th edition)	R.Pressmen	M C Graw Hill
2	Software Engineering(4 th edition)	R.Pressmen	M C Graw Hill

UNIT-II

Sr. No.	Process Of Software		Lectures Required	Ref. No
2	2.1	Software Engineering	1	1
	2.2	Software Process	1	1
	2.3	The Waterfall Model	2	1,2
	2.4	Incremental Process Models	2	1,2

	2.5	Evolutionary Process Models	2	1,2
	2.6	Spiral Model	1	1,2

References:

Sr.No	Name of Book	Writer	Publication
1	Software Engineering	R.Pressmen	M C Graw Hill
2	Software Engineering 7th / 8th Edition	IAN Sommerville	Pearson Edition

UNIT-III

Sr. No.	A Generic View of Process		Lectures Required	Ref. No
3	3.1	Software Engineering – A Layered Technology	1	1,2
	3.2	Process Framework	1	1,2
	3.3	Personal and Team Process Models	1	1,2
	3.4	Personal Software Process (PSP)	1	1,2
	3.5	Team Software Process (TSP)	1	1,2
	3.6	Process Technology	1	1,2
	3.7	Product and process	1	1,2

References:

Sr.No	Name of Book	Writer	Publication
1	Software Engineering	R.Pressmen	M C Graw Hill
2	Software Engineering 7th / 8th Edition	IAN Sommerville	Pearson Edition

UNIT-IV

Sr. No.	AGILE DEVELOPMENT		Lectures Required	Ref. No
4	4.1	What Is Agility?	1	1
	4.2	What Is an Agile Process?	2	1
	4.3	The Politics of Agile Development	2	1
	4.4	Agile Process Models	2	1
	4.5	Feature Driven Development (FDD)	2	1

References:

Sr. No	Name of Book	Writer	Publication
1	Software Engineering	R.Pressmen	M C Graw Hill

UNIT-V

Sr. No.	5. Software Engineering Practice		Lectures Required	Ref. No
5	5.1	Software Engineering Practice	1	1
	5.2	The Essence of Practice	1	1
	5.3	Core Principles	1	1
	5.3	Communication Practices	1	1
	5.5	Planning Practices	1	1
	5.6	Modeling Practices	1	1
	5.7	Analysis Modeling Principles	1	1
	5.8	Design Modeling Principles	1	1

References:

Sr. No	Name of Book	Writer	Publication
1	Software Engineering 7th / 8th Edition	IAN Sommerville	Pearson Edition

UNIT-VI

Sr. No.	System Engineering		Lectures Required	Ref. No
6	6.2	6.1 Computer-Based Systems	2	1,2
	6.3	6.2 The System Engineering Hierarchy	1	1,2
	6.4	6.2.1 System Modeling	1	1,2
	6.5	6.2.2 System Simulation	1	1,2

References:

Sr. No	Name of Book	Writer	Publication
1	Software Engineering	R.Pressmen	M C Graw Hill
1	Software Engineering 7th / 8th Edition	IAN Sommerville	Pearson Edition

Name of Course	BCA Third Year
Semester	VI Semester
Name of Subject	Linux Administration
Subject code	S6.CC.3

Silent Features:

Linux is a powerful, free and open source code Operating System available in market. It can be used for both purposes like desktop and server use. So from smartphones to cars, supercomputers and home appliances, the Linux operating system is everywhere. So by learning this subject student will be capable, not only to learn the basic functions and tasks of operating system but also they can develop and release their own software on internet without any cost.

Objectives:

- This course shall build a platform for students to start their own enterprise
- For Making Student Job Ready
- To become familiar with open source software and user interface.
- To securely handle OS without any viruses and malwares.
- For easily use free software available on internet.
- To understand the basic operating system command.
- To understand the basic concept of Linux operating system administration

Utility of the course:

- Awareness of existing demanding trends in IT industry in order to get placement & research in open source market.
- Understand the Linux OS architecture.
- Install and use different types of distributions available in market.
- Understand the different Linux administration commands.
-

Prerequisite:

- Basics of Operating System covered in Semester I.

UNIT I

Sr. No.	Managing Accounts		Lectures Required	Ref. No
I	1.1	Managing User Accounts, Managing Groups	1	1,2,3
	1.2	Managing Passwords	2	1,2,3
	1.3	Granting System Administrator Privileges to Regular Users	2	1,2,3
	1.4	The User Login Process	1	1,2

References:

Sr. No	Name of Book	Writer	Publication
1	Red Hat Linux 7 Unleashed	Bill Ball ,David Pitts	Tec media SAMS publication
2	UNIX System Administration Handbook	Evi Nemeth, Garth Snyder, Scott Seebass	Person Education Asia (LPE)(III Edition)
3	Red Hat Linux and Fedora Unleashed	Bill Ball and Hoyt Duff	

UNIT-II

Sr. No.	Managing the File system		Lectures Required	Ref. No
II	2.1	Working with the Linux File System	1	1,2,3
	2.2	Working with ext3 File system	2	1,2,3
	2.3	Other File system Available to Fedora Core Linux	2	1,2,3
	2.4	Creating a File system , Mounting File systems	1	1,2,3

References:

Sr. No	Name of Book	Writer	Publication
1	Red Hat Linux 7 Unleashed	Bill Ball ,David Pitts	Techmedia SAMS publication
2	UNIX System Administration Handbook	Evi Nemeth,Garth Snyder,Scott Seebass	Person Education Asia (LPE)(III Edition)
3	Red Hat Linux and Fedora Unleashed	Bill Ball and Hoyt Duff	

UNIT-III

Sr. No.	Printing with Fedora		Lectures Required	Ref. No
III	3.1	Overview of Fedora Printing	9	1,2,3,
	3.2	Configuring and Managing Print Services		
	3.3	Creating and Configuring Local Printers		
	3.4	Creating Network Printers		
	3.5	Console Print Controls		
		Using the Common UNIX Printing System (CUPS) GUI		

References:

Sr. No	Name of Book	Writer	Publication
1	Red Hat Linux 7 Unleashed	Bill Ball ,David Pitts	Tec media SAMS publication
2	UNIX System Administration Handbook	Evi Nemeth,Garth Snyder,Scott Seebass	Person Education Asia (LPE)(III Edition)
3	Red Hat Linux and Fedora Unleashed	Bill Ball and Hoyt Duff	

UNIT-IV

Sr. No.	System Administration		Lectures Required	Ref. No
IV	4.1	System services and run levels.	2	1,2,3
	4.2	Controlling services with administrative tools (chkconfig & GUI based services)	1	2,3
	4.3	Performing system maintenance.	2	2,3
	4.4	Managing s/w with RPM	1	1,2
	4.5	Communication commands	2	2,3

References:

Sr. No	Name of Book	Writer	Publication
1	Red Hat Linux 7 Unleashed	Bill Ball ,David Pitts	Techmedia SAMS publication
2	UNIX System Administration Handbook	Evi Nemeth,Garth Snyder,Scott Seebass	Person Education Asia (LPE)(III Edition)
3	Red Hat Linux and Fedora Unleashed	Bill Ball and Hoyt Duff	

UNIT-V

Sr. No.	Backup and Restore		Lectures Required	Ref. No
V	5.1	Backup strategies and operation.	2	1,2,3
	5.2	Choosing backup hardware and media	2	1,2
	5.3	Using backup s/w and commands	2	1,2
	5.4	Managing users and groups	2	1,2,3

References:

Sr. No	Name of Book	Writer	Publication
1	Red Hat Linux 7 Unleashed	Bill Ball ,David Pitts	Techmedia SAMS publication
2	UNIX System Administration Handbook	Evi Nemeth,Garth Snyder,Scott Seebass	Person Education Asia (LPE)(III Edition)
3	Red Hat Linux and Fedora Unleashed	Bill Ball and Hoyt Duff	

UNIT-VI

Sr. No.	Networking and shell scripting in Linux		Lectures Required	Ref. No
VI	6.1	Network configuration tools	1	1,2,3
	6.2	Working with DHCP	2	1,2,3
	6.3	Using NFS	1	1,2,3
	6.4	Introduction to SAMBA	1	1,2,3
	6.5	Introduction to DNS and Apache Web Server	2	1,2,3
	6.6	Working with shell scripting in Linux.	2	1,2,3

References:

Sr. No	Name of Book	Writer	Publication
1	Red Hat Linux 7 Unleashed	Bill Ball ,David Pitts	Techmedia SAMS publication

2	UNIX System Administration Handbook	Evi Nemeth,Garth Snyder,Scott Seebass	Person Education Asia (LPE)(III Edition)
3	Red Hat Linux and Fedora Unleashed	Bill Ball and Hoyt Duff	
Sr. No	Name of Book	Writer	Publication
1	Red Hat Linux 7 Unleashed	Bill Ball ,David Pitts	Techmedia SAMS publication
2	UNIX System Administration Handbook	Evi Nemeth,Garth Snyder,Scott Seebass	Person Education Asia (LPE)(III Edition)
3	Red Hat Linux and Fedora Unleashed	Bill Ball and Hoyt Duff	

Name of Course	B.C.A. Third Year
Semester	VI Semester
Name of Subject	Software Testing
Subject code	S6.CC.4

Prerequisites:

- Adequate knowledge of programming languages.
- Adequate knowledge of Software engineering concepts.

Course Objectives:

- To develop software engineering skills and testing plans.
- To understand system concepts and its application in Software development.
- To enhance skills of designing and testing software.
- To learn technical skills to assure production of quality software.

Course Outcomes:

- Ability to learn various methods of software development.
- Ability to apply various software testing techniques

Salient Features:

- Improve your skills & build Confidence
- Ability to understand the problem and write test cases for software testing
- Lifelong learning and readily adapt to new software testing environments.

UNIT-I

Sr. No.	Quality concepts		Lectures Required	Ref. No
1	1.1	Quality	1	1,2
	1.2	Software Quality		1,2
	1.2.1	McCall's Quality Factors	1	1,2
	1.2.2	ISO 9126 Quality Factors	1	1,2
	1.2.3	Targeted Quality Factors	1	1,2
	1.3	The Cost of Quality	1	1,2
	1.4	Quality and Security	1	1,2
	1.5	Quality Control	1	1,2
	1.6	Quality Assurance	1	1,2

References:

Sr. No	Name of Book	Writer	Publication
1	Software Engineering	R.Pressmen	M C Graw Hill
2	Software Testing Concepts and Tools	NageswaraRoo	Dreamtech Publication

UNIT-II

Sr. No.	Software Quality Assurance		Lectures Required	Ref. No
2	2.1	Software Quality Assurance	1	1,2
	2.2	Software Reviews	1	1,2
	2.3	Formal Technical Reviews	2	1,2
	2.4	Software Reliability	2	1,2
	2.5	The SQA Plan	1	1,2

References:

Sr.No	Name of Book	Writer	Publication
1	Software Engineering	R.Pressmen	M C Graw Hill
2	Software Testing Concepts and Tools	NageswaraRoo	Dreamtech Publication

UNIT-III

Sr. No.	SOFTWARE TESTING STRATEGIES		Lectures Required	Ref. No
3	3.1	A Strategic Approach to Software Testing	2	1,2
	3.2	Unit Testing	1	1,2
	3.3	Integration Testing	2	1,2
	3.4	Validation Testing	1	1,2
	3.5	System Testing	1	1,2
	3.6	The Art Of Debugging	1	1,2

References:

Sr.No	Name of Book	Writer	Publication
1	Software Engineering	R.Pressmen	M C Graw Hill
2	Software Testing Concepts and Tools	NageswaraRoo	Dreamtech Publication

UNIT-IV

Sr. No.	TESTING APPLICATION		Lectures Required	Ref. No
4	4.1	Software Testing Fundamentals	1	1,2
	4.2	Internal and External Views of Testing	2	1,2
	4.3	White-Box Testing	3	1,2
	4.4	Basic Path Testing	3	1,2
	4.5	Control Structural Testing	2	1,2
	4.6	Black Box Testing	2	1,2

References:

Sr.No	Name of Book	Writer	Publication
1	Software Engineering	R.Pressmen	M C Graw Hill
2	Software Testing Concepts and Tools	NageswaraRoo	Dreamtech Publication

UNIT-V

Sr. No.	WEBAPPS FOR TESTING		Lectures Required	Ref. No
5	5.1	Testing Concepts for WebApps	2	1,2
	5.2	The Testing Process-An Overview	1	1,2
	5.3	Content Testing	1	1,2
	5.3	User interface Testing	1	1,2
	5.5	Navigation Testing	2	1,2
	5.6	Security Testing	2	1,2

References:

Sr. No	Name of Book	Writer	Publication
1	Software Engineering	R.Pressmen	M C Graw Hill

2	Software Testing Concepts and Tools	NageswaraRoo	Dreamtech Publication
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UNIT-VI

Sr. No.	PRODUCT METRICS		Lectures Required	Ref. No
6	6.1	A frame work for product metrics	1	1,2
	6.2	Metrics for the requirements model	1	1,2
	6.3	Metrics for design model	1	1,2
	6.4	Metrics for source code	1	1,2
	6.5	Metrics for testing	1	1,2

References:

Sr. No	Name of Book	Writer	Publication
1	Software Engineering	R.Pressmen	
2	Software Testing Concepts and Tools	NageswaraRoo	Dreamtech Publication

Name of Course	BCA TY
Semester	VI Semester
Name of Subject	Elective- Mobile Communication
Subject Code	S6.CC.5 (Core Course Elective – I)

Prerequisites:

- Understanding of how TCP/IP networks operate
- Basic understanding of radio communication concepts and signaling protocol.

Course Objectives:

- To understand the basics of wireless voice and data communication technologies.
- To study about the wireless communication Techniques.
- To understand measurement and performance of mobile and wireless system.
- To understand security and privacy issues in wireless environments.

Course Outcomes:

- Evaluate the usability of mobile devices such as smart phones.
- Select appropriate wireless technologies in commercial and enterprise applications.
- Assess the capabilities of next generation networks and role of mobile technologies.

Salient Features:

- Covers evolutionary path of modern wireless communication networks from different generations.
- Detailed discussions on cellular technologies.
- Brief overview of emerging wireless networking technologies such as IEEE 802.11, HIPERLAN ,Bluetooth.

UNIT-I

Sr. No.	Introduction		Lectures Required	Ref. No
1	1.1	Application	2	1,2
	1.2	A Short History Of Wireless Communication	2	1,2
	1.3	A Market For Mobile Communication	2	1,2
	.4	Some Open Research Topic	1	1,2
	1.5	A Simplified Reference Model	2	1,2

References:

Sr. No	Name of Book	Writer	Publication
1	Mobile Communications Second Edition	Jochen Schiller	Pearson Education
2	Mobile Cellular Telecommunications Second Edition	William C.Y.Lee	Mc-Graw-Hill

UNIT-II

Sr. No.	Introduction To Cellular Mobile System		Lectures Required	Ref. No
2)	2.1	Introduction	1	2
	2.2	Basic Cellular System	2	2

	2.3	Performance Criteria	1	2
	2.4	Operation Of Cellular System	2	2
	2.5	Planning A Cellular System	1	2
	2.6	Analog Cellular System	2	2

References:

Sr.No	Name of Book	Writer	Publication
1	Mobile Communications Second Edition	Jochen Schiller	Pearson Education
2	Mobile Cellular Telecommunications Second Edition	William C.Y.Lee	Mc-Graw-Hill

UNIT-III

Sr. No.	Medium Access Control		Lectures Required	Ref. No
3)	3.1	Motivation For Specialized MAC	1	1,2
	3.2	SDMA	2	1,2
	3.3	FDMA	2	1,2
	3.4	TDMA	2	1,2
	3.5	CDMA	2	1,2

References:

Sr.No	Name of Book	Writer	Publication
1	Mobile Communications Second Edition	Jochen Schiller	Pearson Education
2	Mobile Cellular Telecommunications Second Edition	William C.Y.Lee	Mc-Graw-Hill

UNIT-IV

Sr. No.	Telecommunication System		Lectures Required	Ref. No
4)	4.1	GSM	3	1,2
	4.2	DECT	3	1,2
	4.3	TETRA	3	1,2

References:

Sr. No	Name of Book	Writer	Publication
1	Mobile Communications Second Edition	Jochen Schiller	Pearson Education
2	Mobile Cellular Telecommunications Second Edition	William C.Y.Lee	Mc-Graw-Hill

UNIT-V

Sr. No.	Wireless LAN		Lectures Required	Ref. No
5)	5.1	Infra-red Vs radio transmission	2	1,2
	5.2	Infrastructure and analog Network	1	1,2
	5.3	IEEE 802.11	2	1,2
	5.3	HIPERLAN	2	1,2
	5.5	Bluetooth	2	1,2

References:

Sr. No	Name of Book	Writer	Publication
1	Mobile Communications Second Edition	Jochen Schiller	Pearson Education
2	Mobile Cellular Telecommunications Second Edition	William C.Y.Lee	Mc-Graw-Hill

UNIT-VI

Sr. No.	Mobile Network Layer		Lectures Required	Ref. No
6)	6.1	Mobile IP	3	1,2
	6.2	Dynamic Configuration Protocol	3	1,2
	6.3	Mobile ad-hoc Networks	3	1,2

References:

Sr. No	Name of Book	Writer	Publication
1	Mobile Communications Second Edition	Jochen Schiller	Pearson Education
2	Mobile Cellular Telecommunications Second Edition	William C.Y.Lee	Mc-Graw-Hill

Name of Course	B.C.A. Third Year
Semester	VI Semester
Name of Subject	Data Mining & Data Warehousing
Subject code	S6.CC.5 (Core Course Elective - II)

Prerequisites:

Basic Programming, Mathematics-Statistics, Database Concepts

Course Objectives:

- To introduce the basic concepts of Data Mining and Data Warehouse techniques.
- Examine the types of the data to be mined and apply preprocessing methods on raw data.
- Discover interesting patterns, analyse supervised and unsupervised models and estimate the accuracy of the algorithms.

Course Outcomes:

Students who complete this course should be able to

- Process raw data to make it suitable for various data mining algorithms.
- Discover and measure interesting patterns from different kinds of databases.
- Apply the techniques of clustering, classification, association finding, feature selection and visualization to real world data.

Salient Features:

Data mining helps in analyzing and summarizing different elements of information. Mining process is a form where in which all the data and information can be extracted for the purpose of future benefit. It helps in

- It helps to identify the shopping patterns
- Increases website optimization:
- It is beneficial for marketing campaigns:
- Determining customer groups:
- Increases brand loyalty:

UNIT-I

Sr. No.	Introduction		Lectures Required	Ref. No
1	1.1	Basic Data Mining task	1	1,2
	1.2	Data Mining Vs Knowledge discovery in databases	3	1,2
	1.3	Data mining metrics	3	1,2
	1.4	Social Implication of Data Mining	2	1,2

References:

Sr. No	Name of Book	Writer	Publication
1	Data Mining – Introductory and Advanced Topics	Margaret H. Dunham & S. Shridhar	Pearson Education
2	Data Warehousing Fundamentals	Paulraj Ponniah	

UNIT-II

Sr. No.	Related Concepts		Lectures Required	Ref. No
2)	2.1	Database/OLTP systems	1	1,2
	2.2	Information Retrieval	4	1,2

	2.3	Decision Support Systems	3	1,2
	2.4	Dimensional Modeling	1	1,2
	2.5	OLAP 2.6 Web Search Engines	3	1,2

References:

Sr. No	Name of Book	Writer	Publication
1	Data Mining – Introductory and Advanced Topics	Margaret H. Dunham & S. Shridhar	Pearson Education
2	Data Warehousing Fundamentals	Paulraj Ponniah	

UNIT-III

Sr. No.	Data Mining Techniques		Lectures Required	Ref. No
3)	3.1	Introduction.	1	1,2
	3.2	Statistical perspective on Data Mining	2	1,2
	3.3	Decision Tree	2	1,2
	3.4	Method Overloading	2	1,2
	3.5	Neural networks	3	1,2

References:

Sr. No	Name of Book	Writer	Publication
1	Data Mining – Introductory and Advanced Topics	Margaret H. Dunham & S. Shridhar	Pearson Education
2	Data Warehousing Fundamentals	Paulraj Ponniah	

UNIT-IV

Sr. No.	Classification		Lectures Required	Ref. No
4)	4.1	Introduction	2	1,2
	4.2	Statistical based algorithms	2	1,2
	4.3	Distance based algorithms Create Package	2	1,2
	4.4	Decision tree based algorithms	3	1,2
	4.5	Neural network based algorithm	2	1,2

References:

Sr. No	Name of Book	Writer	Publication
1	Data Mining – Introductory and Advanced Topics	Margaret H. Dunham & S. Shridhar	Pearson Education
2	Data Warehousing Fundamentals	Paulraj Ponniah	

UNIT-V

Sr. No.	Clustering		Lectures Required	Ref. No
5)	5.1	Introduction	1	1,2
	5.2	Hierarchical algorithms	1	1,2
	5.3	Partitional algorithms	1	1,2
	5.4	Clustering large databases	2	1,2

References:

Sr. No	Name of Book	Writer	Publication
1	Data Mining – Introductory and Advanced Topics	Margaret H. Dunham & S. Shridhar	Pearson Education
2	Data Warehousing Fundamentals	Paulraj Ponniah	

UNIT-VI

Sr. No.	Association Rules		Lectures Required	Ref. No
6)	6.1	Introduction	1	1,2
	6.2	Basic algorithms	1	1,2
	6.3	Parallel and distributed algorithms	1	1,2

References:

Sr. No	Name of Book	Writer	Publication
1	Data Mining – Introductory and Advanced Topics	Margaret H. Dunham & S. Shridhar	Pearson Education
2	Data Warehousing Fundamentals	Paulraj Ponniah	

Name of Course	BCA Third Year
Semester	VI Semester
Name of Subject	Enterprise Resource Planning
Subject Code	S6.CC.5 (Core Course Elective III)

Prerequisites:

Basic Programming, Mathematics-Statistics, Database Concepts

Course Objectives:

- To introduce the basic concepts of Enterprise Resource Planning.
- To introduce Business modeling and data modeling.
- To introduce ERP and related technologies such as OLAP, Data Mining, data ware housing etc.

Course Outcomes:

Students who complete this course should be able to

- Understand how to process row data to make it suitable for various decision Support Systems.
- Discover and measure ERP modules for manufacturing (CAD/ CAM).

Salient Features:

- ERP helps in analyzing and summarizing different elements of information. ERP process is a form where in which all the data and information can be extracted for the purpose of future benefit.
- Understand different ERP Modules, ERP – A Manufacturing Perspective and **ERP Market**

Unit – I

1.	1. Introduction to ERP	Lectur es	Ref. No.
	1.1 Evolution of ERP	01	1
	1.2 What is ERP?	01	1
	1.3 Advantages of ERP	01	1

References:

Sr. No.	Name of the Book	Author	Publication
1.	Enterprise Resource	Alexis Leon	TATA McGraw Hill

Unit – II

2.	Enterprise – An Overview	Lecture s	Ref. No.
	2.1 Integrated Management Information	01	1
	2.2 Business Modelling	03	1
	2.3 Integrated Data Model	03	1

References:

Sr. No.	Name of the Book	Author	Publication
1.	Enterprise Resource	Alexis Leon	TATA McGraw Hill

Unit- III

3.	ERP and Related Technologies	Lectures Require	Ref. No.
	3.1 BPR	01	1
	3.2 MIS	01	1
	3.3 DSS	01	1
	3.4 EIS		1
	3.5 Data Warehousing	03	1
	3.6 Data Mining	03	1
	3.7 OLAP	02	1
	3.8 Supply Chain Management	02	1

References:

Sr. No.	Name of the Book	Author	Publication
1.	Enterprise Resource	Alexis Leon	TATA McGraw Hill

Unit- IV

4.	ERP – A Manufacturing Perspective	Lectures Require	Ref. No.
	4.1 ERP	02	1
	4.2 CAD / CAM	01	1
	4.3 MRP and BOM	01	1
	4.4 Close loop MRP	01	1
	4.5 Manufacturing Resource Planning and Distribution Requirements Planning	02	1
	4.6 JIT and Kanban	02	1
	4.7 Data Management	02	1
	4.8 Benefits of PDM	02	1
	4.9 MTO and MTS	02	1
	4.10 ATO, ETO, CTO	03	1

References:

Sr. No.	Name of the Book	Author	Publication
1.	Enterprise Resource	Alexis Leon	TATA McGraw Hill

Unit V

5.	ERP Modules	Lectures Require	Ref. No.
	5.1 Finance	02	1
	5.2 Plant Maintenance	01	1
	5.3 Quality Management	02	1
	5.4 Materials Management	01	1

References:

Sr. No.	Name of the Book	Author	Publication
1.	Enterprise Resource	Alexis Leon	TATA McGraw Hill

Unit VI

6.	ERP Market	Lectures Require	Ref. No.
	6.1 Benefits of ERP	01	1
	6.2 SAP AG	01	1
	6.3 Oracle Corporation	01	1
	6.4 QAD	02	1

References:

Sr. No.	Name of the Book	Author	Publication
1.	Enterprise Resource	Alexis Leon	TATA McGraw Hill

Name of Course	B.C.A. Third Year
Semester	VI Semester
Name of Subject	SQL Server
Subject Code	S6.SEC.1 (SEC I)

Prerequisites:

- Basic knowledge of operating system & DBMS.

Course Objectives:

- To understand what is MS SQL Server & its uses.
- To understand basic SQL queries.
- To understand different numerical, string & date handling function.
- Implementation and representation of different type relations in table.
- To understand backup and restore procedure.
- To understand repairing database.
- To understand procedures and triggers

Course Outcomes:

- Detailed understanding of MS SQL Server database.
- Knowledge of writing SQL queries.
- Knowledge of DDL, DML, DCL commands
- Knowledge of maintaining relation between table and database normalization.
- Understanding different numerical, string handling and date handling function.

Salient Features:

- Able to use concept database normalization.
- Able to use maintaining relationship between tables and joining table.
- Able to use store procedure

1. Relational Database Systems
2. Planning the Installation and Installing SQL Server
3. SQL Server Management Studio
4. SQL Components
5. Data Definition Language
6. Queries
7. Modification of a Table's Contents
8. Stored Procedures and User-Defined Functions
9. System Catalog
10. Indices
11. Views
12. Security System of Database Engine
13. Concurrency Control
14. Triggers

Name of Course	B.C.A. Third Year
Semester	VI Semester
Name of Subject	Macromedia Flash
Subject Code	S6.SEC.1 (SEC II)

Prerequisites:

- Basic knowledge of operating system.

Course Objectives:

- To understand creating graphics in flash.
- To understand basics of animation.
- To understand basics of Action Script.
- To understand Events

Course Outcomes:

- Detailed understanding creating graphics and animations.
- Knowledge of writing Action Scripts.
- Knowledge of Creating animation movies
- Knowledge of Working with sounds and Videos

Salient Features:

- Able to design graphics and animations.
- Able to write Action Scripts for interactive animations.

1. Getting Started
 - a. Introduction and Features of Macromedia Flash
 - b. Creating Graphics in Flash
 - c. Flash Animation
 - d. Symbols, instance, and the Library
 - e. Working with Sound and Video
2. ActionScript
 - a. Introduction to ActionScript
 - b. String, Numbers and Variables
 - c. Arrays
 - d. Statements and Expressions
 - e. Functions
 - f. The Movie Clip Object
 - g. Events

Practical's List:

1. Creating Graphic in Flash
2. Creating Simple Animation
3. Working with Symbols and instances

4. Creating and Using Library
5. Creating animation with simple ActionScript
6. Working with String, Numbers and Variables
7. Working With Arrays
8. Creating animation using functions
9. Creating Simple Movies
10. Using Events in Flash Animations
11. Use 3 Key frames to create a color change effect
12. Use an Input Text and a Dynamic Text field to create a simple interaction
13. Use the above file and add a button to create a simple interaction
14. Use drawing tools and 4 key frames to create a simple animation.
15. Draw a rectangle and then use Motion Tween and Rotation to create an effect
16. Use a moving background and change the publish setting to create an

Class	B.C.A. Third Year
Semester	VI Semester
Name of Subject	Android Programming
Subject Code	S6.SEC.1 (SEC III)

Silent Features:

Android is a powerful Operating System supporting a large number of applications in Smart Phones. Android programming course teaches students how to develop applications for the Android operating system. This course is designed for students who are familiar to programming, and want to learn how to develop Android apps. They will learn how to create an Android project along with Android architecture and the key principles underlying its design.

Objectives:

- This course shall build a platform for students to start their own enterprise
- For Making Student Job Ready
- To gain an understanding of the processes that are involved in an Android developed application
- To become familiar with Android development tools and user interface.
- To understand Activity and Intends
- To understand SQLite Database.
- To Understand Web view control
- Ability to build Many simple apps that you can share with your friends

Utility of the course:

- Awareness of existing demanding trends in IT industry in order to get placement & research
- Understand the Android OS architecture.
- Install and use appropriate tools for Android development, including IDE, device emulator, and profiling tools.
- Understand the Android application architecture, including the roles of the task stack, activities, & services.
- Build user interfaces with fragments, views, form widgets, text input, lists, tables, and more.

Prerequisite:

Basic of Operating System covered in Semester I, Basic of Java Programming covered in Semester IV and Basic of Java Server Pages Covered in Semester V

UNIT I: Introduction

Installing Eclipse, Installing Android Development Tools for Eclipse, Installing Android Studio

UNIT II: Android Architecture

Android applications structure, creating a project, working with the AndroidManifest.xml, Activities

UNIT III: UI Architecture

Application context, Intents, Activity life cycle

UNIT IV: User Interface Widgets

Text controls, Button controls, Toggle buttons, Images, **Notification and Toast**

UNIT V: Menus, Dialogs and Animation

Options menu, Context menu, Dialogs, Animation

UNIT VI: Working with data storage and Publishing Apps

Shared preferences, Files access, SQLite database, publishing Apps

References:

1. Professional Android 4 Application Development, Edition 3, Reto Meier, Wrox John Wiley & Sons, 2012, ISBN 1118237226, 9781118237229.
2. Beginning Android 4 Application Development, Edition illustrated, Wei-Meng Lee, John Wiley & Sons, 2012, ISBN 1118240677, 9781118240670.
3. Sams Teach Yourself Android Application Development in 24 Hours, Edition illustrated, Lauren Darcey & Shane Conder, Sams Publishing, 2012, ISBN 0672335697, 9780672335693
4. <https://developer.android.com/>
5. <https://www.tutorialspoint.com/android/>
6. <https://developer.android.com/guide/>

Practical List:

1. Installing Eclipse and Android Studio
2. Study of Android Application structure.
3. Sample Apps for Working with AndroidManifest.xml
4. Sample Apps for Working with Activities.
5. Sample Apps for Working with Application Context
6. Apps for Demonstration of Intends
7. Apps for Demonstration of Activity Life Cycle.
8. Apps for demonstration of Buttons and Textbox.
9. Designing simple Calculator Apps
10. Sample Apps for Working with Images.
11. Sample Apps for Working with Notification and Toast.
12. Sample Apps for Demonstration of Context menu and Dialogs
13. Sample Apps for Working with SQLite Database.
14. Sample Apps for Demonstration of File Access.
15. Sample Apps for Demonstration of Shared preferences and Preferences activity

Name of Course	BCA Third Year
Semester	VI Semester
Name of Subject	Linux Administration
Subject code	S6.Lab.1

Silent Features:

Linux is a powerful, free and open source code Operating System available in market. It can be used for both purposes like desktop and server use. So from smartphones to cars, supercomputers and home appliances, the Linux operating system is everywhere. So by learning this subject student will be capable, not only to learn the basic functions and tasks of operating system but also they can develop and release their own software on internet without any cost.

Objectives:

- This course shall build a platform for students to start their own enterprise
- For Making Student Job Ready
- To become familiar with open source software and user interface.
- To securely handle OS without any viruses and malwares.
- For easily use free software available on internet.
- To understand the basic operating system command.
- To understand the basic concept of Linux operating system administration

Utility of the course:

- Awareness of existing demanding trends in IT industry in order to get placement & research in open source market.
- Understand the Linux OS architecture.
- Install and use different types of distributions available in market.
- Understand the different Linux administration commands.
-

Prerequisite:

- Basics of Operating System covered in Semester I.

PRACTICAL List:

- 1) Introduction to Red Hat Linux.
- 2) Red Hat installation.
- 3) Simple commands in Linux
(files and directory related commands-cat,cp,sort,touch,vi,mkdir,cd,rm ,rmdir, etc...)
- 4) Administrative commands in Linux
(Commands requires root (#) prompt)
- 5) Communication Commands.(write,wall talk,mesg,prelogin,mesg,motd)
- 6) Backup and compression commands
- 7) Networking commands
- 8) Printing commands
- 9) DHCP configuration in Linux.
- 10) Working with shell scripting
- 11) Any 5 programs on shell scripting.

Name of Course	B.C.A. Third Year
Semester	VI Semester
Name of Subject	Software Testing
Subject Code	S6.Lab.2

Prerequisites:

- Adequate knowledge of programming languages.
- Adequate knowledge of Software engineering concepts.

Course Objectives:

- To develop software engineering skills and testing plans.
- To understand system concepts and its application in Software development.
- To enhance skills of designing and testing software.
- To learn technical skills to assure production of quality software.

Course Outcomes:

- Ability to learn various methods of software development.
- Ability to apply various software testing techniques

Salient Features:

- Improve your skills & build Confidence
- Ability to understand the problem and write test cases for software testing
- Lifelong learning and readily adapt to new software testing environments.

1. To study what is software testing.
2. To study Verification method.
3. To study validation method
4. To study Defect management process.
5. To study defect life cycle.
6. To study introduction to winrunner.
7. To study synchronization in Winrunner.
8. To study checkpoints in Winrunner.
9. To Study batch File mode in Winrunner .

Or

1. To study introduction to QTP.
2. To study synchronization in QTP.
3. To study checkpoints in QTP.
4. To Study working with regular Expression.
5. To study test director.

Name of Course	B.C.A. Third Year
Semester	VI Semester
Name of Subject	Seminar
Subject Code	S6.Lab 3

- Students have to prepare and present seminar on recent technologies with the help of guide.
- Students have to submit the seminar reports.

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,
NANDED**

**CHOICE BASED CREDIT SYSTEM (CBCS)
SEMESTER PATTERN
Post Graduate (PG) Programme in Chemistry
(Affiliated Colleges)
w.e.f. Academic year 2014-15**

SYLLABUS FOR M.Sc. PART – I EXAMINATION

M. Sc. Chemistry

**SEMESTER PATTERN
2014-15**

BOARD OF STUDIES IN CHEMISTRY

S.R.T.M.U.,NANDED

CHOICE BASED CREDIT SYSTEM (CBCS)

Draft Syllabus Prescribed for M.Sc. Part-I and Part-II Examination in Chemistry (Semester Pattern)

Semester	Paper	Course No.	Course	Periods/ Week	Total periods	Credit
1 st	I	CH-411	Inorganic Chemistry-I	4	60	4
	II	CH-412	Organic Chemistry-I	4	60	4
	III	CH-413	Physical Chemistry-I	4	60	4
	IV	CH-414	Physical methods in Chemistry-I	4	60	4
	(Elective) V		Seminar			1
						Total - 17
2 nd	VI	CH-421	Inorganic Chemistry-II	4	60	4
	VII	CH-422	Organic Chemistry-II	4	60	4
	VIII	CH-423				
Chemistry-II		4	60	4		
(Elective)	IX	CH-424	Principles of Spectroscopy-II	4	60	4
	X		Seminar			1
						Total - 17
	XI	CH-401	Lab. Course-I (IC)	6	132	4
	XII	CH-402	Lab. Course- II (OC)	6	132	4
	XIII	CH-403	Lab. Course- III (PC)	6	132	4
	XIV	CH-404	Lab. Course- IV (EC)	6	132	4
						Total – 16
						Grand Total – 50 Credits

Instructions

- I] Each Laboratory Course of 6 Hrs duration should be completed in 6 Hrs per day.
- II] Assessment shall consist of continuous assessment (CA) and end of Semester examination (ESE).
- III] 75% for ESE and 25% for CA.
- IV] Paper-(Elective) : Transfer of credit as per student choice.

V] Evaluation of Seminar should be from panel of experts.

**Draft Syllabus Prescribed for
M.Sc. Part-I and Part-II Examination in Chemistry
(Semester Pattern)**

Semester	Paper No.	Course No.	External (ESE)	Internal (CA)	Total
I st	I	CH-411	(75 marks)	(25 marks)	Credit - 4
	II	CH-412	(75 marks)	(25 marks)	Credit - 4
	III	CH-413	(75 marks)	(25 marks)	Credit - 4
	IV	CH-414	(75 marks)	(25 marks)	Credit - 4
	V	Seminar	(25 marks)		Credit - 1

Semester	Paper No.	Course No.	External (ESE)	Internal (CA)	Total
II st	VI	CH-421	(75 marks)	(25 marks)	Credit - 4
	VII	CH-422	(75 marks)	(25 marks)	Credit - 4
	VIII	CH-423	(75 marks)	(25 marks)	Credit - 4
	IX	CH-424	(75 marks)	(25 marks)	Credit - 4
	X	Seminar	(25 marks)		Credit - 1

Lab Course Work (Annual Pattern)

Paper	Course No.	External (ESE)	Internal (CA)	Total
II st	XI	CH-401	(75 marks)	(25 marks)
	XII	CH-402	(75 marks)	(25 marks)
	XIII	CH-403	(75 marks)	(25 marks)
	XIV	CH-404	(75 marks)	(25 marks)

Total Credit – Sem. I + Sem. II + Lab. Course = 17 + 17 + 16 = 50

M. Sc. First Year, Semester-I
Inorganic Chemistry - I
Paper: I, (CH-411)

Credit : 4

60P

1. Reactions of metal complexes
(Part I)

20 periods

- 1.1
 - a. Introduction
 - b. Labile and Inert complexes
 - c. VBT explanation of lability and inertness.
 - d. Taube's explanation of lability and inertness.

- 1.2
 - a. Ligand substitution reactions.
 - b. SN^1 : substitution, nucleophilic, unimolecular mechanism (Dissociative mechanism) : Introduction, Characteristics, Example.

 - c. SN^2 : substitution, Nucleophilic, Bimolecular Mechanism (Associative mechanism): Introduction, Characteristics, Example.
 - d. SN^1CB : Substitution Nucleophilic Unimolecular Conjugate Base Mechanism : Characteristics, Example.
 - e. Anation Reaction.

- 1.3
 - Electron-transfer reactions.
(Redox reaction)

 - a. Introduction with example.

 - b. Outer sphere mechanism, tunneling mechanism, essential requisite for electron transfer, factors which favour outer sphere electron transfer reactions.

 - c. Inner-sphere mechanism, characteristics, example, proof for inner-sphere mechanism, inner sphere mechanism and bridging ligand, inner sphere mechanism and electronic configuration.
(For this chapter use **concise coordination chemistry by R. Gopal, V. Ramlingam, Vikas Publishing House Pvt. Ltd.**)

2. d-Metal organometallic Chemistry

20 P

- 2.1
 - a. Introduction

 - b. Bonding - Stable electronic configuration, 18 electron compound, 16 electron square planar compounds, electron count preference, electron counting and oxidation states, neutral ligand method donor pair method and nomenclature.

- 2.2 Ligands

Carbon monoxide, phosphines, dinitrogen and nitrogen monoxide, cyclopentadiene, cyclopentatriene and carbene.

2.3 Compounds

- a. d block carbonyl
- b. Homoleptic carbonyl.
Definition, Synthesis, properties, oxidation & reduction of carbonyl, metal carbonyl basicity and spectroscopic properties of carbonyl compounds.
- c. Metallocenes.
Introduction, structure of metallocene, properties of metallocene, preparation method of metallocene. Ferrocene :- Preparation, structure, Aromatic character.
- d. Metal-metal bonding and cluster : Introduction, structure of cluster, electron counting in cluster, synthesis of cluster.
- e. Reactions of Organometallic Compounds:
Ligand substitution, oxidative addition and reductive elimination.

(For this chapter use **5th edition of Shriver Atkins - Inorganic Chemistry, Oxford University Press**).

3. Spectral and Magnetic Characteristics of Metal Complexes. 20 P

- a. Introduction
- b. Term Symbol, Rules for determining the ground state term symbol for d^n configuration according to L-S. Coupling.
- c. Microstates. Calculation of number of microstates.
- d. Correlation diagram of d^1 & d^9 , d^2 & d^8 in octahedral & tetrahedral field.
- e. Tanabe-Sugano diagram of d^2 & d^3 configuration of an octahedral environments.
- f. Calculation of Racah parameter such as Dq , B , and β .
- g. Charge transfer spectra : Types of transition, MOT for tetrahedral complex (ML_4) showing possible ligand-metal charge transfer transition. ML_6 octahedral complex showing metal to ligand charge transfer transitions.
- h. Magnetic moment of transition metal ions having d^1 to d^9 configuration.
- i. Spin cross over.

Reference Books :

1. Advanced Inorganic Chemistry, F.A. Cotton and Wilkinson, John Wiley.
2. Inorganic Chemistry, J.E. Huhey, Harpes and Row.
3. Inorganic Electronic Spectroscopy, A.B.P. Lever, Elsevier.
4. Magneto chemistry, R.L. Carlin, Springer Verlag.

5. Comprehensive Coordination Chemistry eds, G. Wilkinson, R.D. Gillars and J.A. McCleverty, Pergamon.
6. Advanced Inorganic Chemistry : Satyaprakash, J.D. Tuli, Version I S.K. Basu and R.D. Madan.
7. Advanced Inorganic Chemistry : Vol. I and II Gurudeep Raj.
8. Concise Inorganic Chemistry : J.D. Lee.
9. Principles of Inorganic Chemistry : Puri, Sharma and Kalia.
10. Inorganic Chemistry (Principles, structures and reactivity) (4th Edition): J.E. Huheey, E.A. Keitler and R.L. Keitler.
11. Inorganic Chemistry 3rd Edition : G. Y. Miessler and D.A. Tarr.
12. Selected topics in Inorganic Chemistry : W.U. Malik, J.D. Tuli and R.D. Madan.
13. Chemistry of the elements : N.N. Greenwood and A. Earnshaw.
14. Symmetry and Spectroscopy of molecules : K. Veera Reddy.
15. Inorganic Chemistry : Attkin and Shriver.
16. Some Aspects of Crystal Field Theory : T.M. Dunn, D.S. McClure and R.G. Person.
17. Introduction to Ligand Fields : B.N. Figgis

**M. Sc. I Semester
Organic Chemistry I
Paper: II (CH - 412)**

Credit : 4

60P

1. Reaction Mechanisms: Structure and Reactivity. 15P

- a) Types of mechanism, types of reaction, Thermodynamic and kinetic requirements, Kinetic and thermodynamic control, Hammond's postulate. Potential energy diagrams, Transition state and intermediates.
- b) Determining mechanism of a reaction: Product analysis, kinetic studies, stereochemical outcome, detection and trapping of intermediates, cross over experiments, kinetic isotope effect- primary kinetic and secondary kinetic isotope effect.
- c) Effect of structure on reactivity—The Hammett equation and linear free energy relationship, Substituents and reaction constants. Taft equation.
- d) Aromaticity in benzenoid and non-benzenoid compounds, Alternant and non-alternant hydrocarbons, Huckel's rule, Energy level of π -molecular orbitals, Annulenes, Antiaromaticity, Homoaromaticity.
- e) Reactive intermediates: Generation, Structure and stability of carbocations, Carbanions, Free radicals, Carbenes and nitrenes. Types of reagents.

2. Nucleophilic Substitution: 15P

a) Aliphatic Nucleophilic Substitution:

1. The SN^2 , SN^1 , mixed SN^1 and SN^2 and SET mechanism. The neighbouring group mechanism, Neighbouring group participation by π and σ -bonds, Anchimeric assistance. The SN^i mechanism.
2. Nucleophilic substitutions at an allylic, Aliphatic and a vinylic carbon.
3. Reactivity effects of substrate structure, Attacking nucleophile, Leaving group and reaction medium.

b) Aromatic nucleophilic Substitution:

SN^Ar , SN^1 , Benzyne and SN^1 mechanism. Reactivity: Effect of substrate, Leaving group and attacking nucleophile. The Von Richter, Sommelet-Hauser and Smiles rearrangements.

3. Electrophilic Substitution: 15P

a) Aliphatic Electrophilic Substitution : Bimolecular mechanism— SE^2 and SE^i . The SE^1 mechanism, Electrophilic substitution accompanied by double bond shift. Effect of substrates, Leaving group and the solvent polarity on the reactivity.

b) Aromatic Electrophilic Substitution: The arenium ion mechanism, Orientation and reactivity, Energy profile diagrams. The ortho/para ratio, ipso attack. Quantitative treatment of reactivity in substrates and electrophiles. Diazonium coupling, Vilsmeier reaction, Gattermann-Koch reaction.

4. Photochemistry: 15P

Principles—photochemical theory, electronic excitation, singlet and triplet states, Jablonski diagram. Energy transfer, quantum efficiency.

- a) Photochemistry of carbonyl compound: 1) Photoreduction, 2) Norrish type-I & II, 3) Paterno-Buchi reaction.
- b) Photochemistry of α , β -unsaturated ketones.
- c) Photochemistry of olefins: cis-trans isomerism.
- d) Miscellaneous photochemical reaction: Photo-fries reaction of anilides, Photo-rearrangements, Barton reaction singlet molecular oxygen reaction photochemical formulation of smog photo-degradation of polymers, photochemistry of vision, $n\pi$ - $\pi\pi$ rearrangement.

Reference Books:

- 1. Advanced Organic Chemistry-Reaction Mechanism and structure, Jerry March, John Wiley.
- 2. Advanced Organic Chemistry, F.A. Carey and R.J. Sundberg, Plenum.
- 3. A Guide Book to Mechanism in Organic Chemistry, Peter Sykes, Longman.
- 4. Structure and Mechanism in Organic Chemistry, C.K. Ingold, Cornell University Press.
- 5. Organic Chemistry, R.T. Morrison Boyd, Prentice-Hall.
- 6. Modern Organic Reactions, H.O. House, Benjamin.
- 7. Principles of Organic Synthesis, R.O.C. Norman and J.M. Coxon, Blackie Academic and Professional.
- 8. Reaction Mechanism in Organic Chemistry, S. M. Mukherji and S.P. Singh, Macmillan.
- 9. Stereochemistry of Organic Compounds, P. S. Kalsi, New Age International.
- 10. Advanced Organic Chemistry – Jagdamba Singh and L.D.S. Yadav.
- 11. Advanced Organic Chemistry Reaction and Mechanism– Maya Shanker Singh

M. Sc. First Year, Semester-I
Physical Chemistry
Paper: III (CH – 413)

Credit : 4

60P

1. Quantum Chemistry:

20P

A. Introduction to Exact Quantum Mechanical Results:

- a) The postulates of quantum mechanics.
- b) Schrödinger equation in Laplacian and Hamiltonian form. Significance of Eigen – values and Eigen functions. Significance of Ψ and Ψ^2 .
- c) Discussion of solutions of the Schrödinger equation to
 - i. Particle in one dimensional box,
 - ii. Particle in three dimensional box,
 - iii. Harmonic oscillator,
 - iv. The rigid rotator and
 - v. Hydrogen and Hydrogen like systems.
- d) Orthogonality and normalisation of wave functions.
- e) Numericals on (c) and (d).

B. Approximate Methods:

- a) The variation theorem, linear variation principle.
- b) Perturbation theory (first order and non degenerate).

C. Angular Momentum:

- a) Ordinary angular momentum, generalized angular momentum, eigen functions for angular momentum, eigen values of angular momentum.
- b) Spin, anti-symmetry and Pauli's exclusion principle, commutation relation, zeeman splitting, Spin orbital coupling and R-S couplings.
- c) Operator using ladder operators, addition of angular momentum.

Home assignment for students: Application of Schrödinger equation to hydrogen atom. Applications of variation method and perturbation theory to the Helium atom.

2. Phase Rule:

07P

- a) Recapitulation of phase rule and terms involved in it.
- b) Three component system: representation of ternary systems.
- c) Partially miscible three liquid systems:-1) system composed of three liquid components, one partially miscible pairs, two partially miscible, three partially miscible pairs. 2) System composed of two solid and a liquid components:- formation of eutectic systems, crystallisation of pure components only, formation of binary compounds, one double salt formation.

Home assignment for students: formation of binary compounds hydrate formation, formation of ternary compounds, formation of solid solutions, partially miscibility of phases.

3. Thermodynamics:

20P

A. Classical Thermodynamics:

- a) Brief resume of concepts of laws of thermodynamics. Free energy and entropies.
- b) Partial molar, partial molar free energy chemical potential, partial molar volume and partial molar heat content and their significances. Determinations of these quantities.

- c) Concept of fugacity and determination of fugacity by graphical method and from equation of state.
- d) Non-ideal systems : Excess functions for non-ideal solutions.
- e) Activity, activity coefficient. Debye-Huckel theory for activity coefficient of electrolytic solutions, determination of activity and activity coefficients by 1) solubility 2) E.M.F. method.3) vapour pressure method, Ionic strength.

B. Statistical Thermodynamics:

- a) Concept of distribution, thermodynamics probability, ensemble averaging, postulates of ensemble averaging. Canonical, grand canonical and micro-canonical ensembles.
- b) Partition functions: Translational, rotational, vibrational and electronic partition functions. calculation of thermodynamic properties in terms of partition functions.
- c) Applications of partition functions.
- d) Numericals on A(e), B(b)

Home assignment for students: a) Corresponding distribution laws (Max well-Boltzaman distribution law b) Heat capacity behaviour of solids –chemical equilibria constant in terms of partition functions.

4. Crystallography

05 Hrs

- a) Solid state defects.
- b) semiconductors, N and P type, effect of temperature on N and P type semiconduction.
- c) Packing of uniform spheres, octahedral and tetrahedral voids(holes), close packing of sphere.
- d) Isomorphism, lattice energy and born haber cycle.

5. Electrochemistry I

08 Hrs.

- a) Anomaly of strong electrolytes, Debye-Huckel theory, Onsager equation, & its verification wine effect, Debye falkenhagen effect, ion solvent, interactions.
- b) Thermodynamics of electrified interface equation, Derivation of electro capillary ,Lippmann equation (surface excess)
- c) Structure of electrified interfaces equation, Electrical double layer, Theories of structure of Electrical double layer. Helmholtz-perrin. Gouy-Chapman theory, Stern's theory.

Books Suggested

1. Physical Chemistry -P.W. Atkins, ELBS.
2. Introduction to Quantum Chemistry -A.K.Chandra,Tata McGraw Hill.
3. Quantum Chemistry - Ira N.Levine, Prentice Hall.
4. Coulson's Valence -R. McWeeny ELBS.
5. Chemical Kinetics -K.J.Laidler, McGraw Hill.
6. Kinetics and Mechanism of Chemical Transformations -J.Rajaraman and J.Kuriacose, Macmillan.
7. Micelles, Theoretical and Applied Aspects - V.Moroi, Plenum
8. Modern Electrochemistry Vol.I & II, J.O.M. Bockris & A.K.N. Reddy, Plenum

9. Introduction to Polymer Science - V.R.Gowarikar, N,V.Vishwanathan & J.Sridhar, Wiley Eastern.

M. Sc. I Semester
Physical Method in Chemistry
Paper: IV (CH - 414)

Credit : 4

60P

- 1. Symmetry and Group Theory in Chemistry** **15P**
Symmetry elements and symmetry operation, definitions of group, subgroup, relation between orders of a finite group and its subgroup. Conjugacy relation and classes. Point symmetry group. Schonfiles symbols, representations of groups by matrices (representation of the C_n , C_{nv} , C_{nh} , D_{nh} etc . groups to be worked out clearly.) Character of a representation . The great orthogonality theorem (without proof) and its importance. Character tables C_{1h} , C_{2v} , C_{3v} and their use.
- 2. Computer for Chemist** **20P**
A. Introduction to computers and computing:
Basic structure and functioning of computers with a PC as an illustrative example. Memory, I/O devices. Secondary storage. Computer languages. Operating system with DOS as an example. Introduction to UNIX and WINDOWS. Data processing, principles of programming. Algorithms and flow-charts for chemical concepts.
B. Programming in Chemistry:
Development of small computer codes involving simple formulae in chemistry, such as Vander Waal's equation, pH titration, kinetics, radioactive decay. Evaluation of lattice energy from experimental data. Linear simultaneous equation to solve secular equation within the Hückle theory. Elementary structural features such as bond lengths, bond angles of molecules extracted from data base such as Cambridge data base.
- 3. X-ray Diffraction** **15P**
Bragg condition. Miller indices, Laue method, Bragg method, Debye-Scherrer method of X-ray structural analysis of crystals, index reflections, identification of unit cells from systematic absences in diffraction pattern. Structure of simple lattices and X-ray intensities, structure factor and its relation to intensity and electron density, phase problem. Description of the procedure for an X-ray structure analysis, absolute configuration of molecules, Ramachandran diagram. Numerical on Braggs equation.
 $n\lambda=2d\sin\theta$
- 4. Electron Diffraction:** **5P**
Scattering intensity vs. Scattering angle, Wierl equation, measurement technique, elucidation of structure of simple gas phase molecules with suitable examples.
Home assignment for students: Low energy electron diffraction and structure of surfaces.
- 5. Neutron Diffraction** **5P**

Scattering of neutrons by solids and liquids, magnetic scattering, measurement techniques. **Home assignment for students:** Elucidation of structure of magnetically ordered unit cell, applications.

Books Suggested

1. Physical Methods in Chemistry - R.S. Drago, Saunders College.
2. Chemical Applications of Group Theory - F.A. Cotton.
3. Basic Principles of Spectroscopy - R.Chang, McGraw Hill.
4. Computers and common Sense, R. Hunt and J. Shelly, Prentice Hall.
5. Computational Chemistry, A. C. Norris.
6. An introduction to digital computer design, V.Rajaram and T. Radhakrishnan, Prentice Hall.
7. Microcomputer Quantum Mechanics, J.P. Killngbeck, Adam Hilger.

**M. Sc. II Semester
Inorganic Chemistry-II
Paper: IX (CH - 421)**

Credit : 4

60P

1. **Reaction of Metal Complexes** 10 Period
(Part II)
 - a. Substitution reactions of square-planar complexes.
 - b. Evidence for associative type SN^2 mechanism.
 - c. Trans effect, applications of trans effect.
 - d. Theories of trans effect, the polarization theory, evidences in favour of the polarization theory, defect of this theory, the Pi-bonding theory.
 - e. Cis effect.
(For this chapter use **concise coordination chemistry by R. Gopal, V. Ramlingam, Vikas Publishing House Pvt. Ltd.**)

2. **Catalyst.** 18 P.
 - a. Introduction, General principle and mechanism of catalytic reaction. Types of catalysts.
 - b. Homogeneous Catalysis : Hydrogenation of alkenes, Hydroformylation, Methanol Carbonylation, Wacker oxidation of alkenes, Palladium-catalysed C-C bond forming reaction, Heterogeneous catalysis : The nature of Heterogeneous catalysts, ammonia synthesis, Sulfur dioxide oxidation, Fischer-Tropsch Synthesis, Alkene Polymerization, New directions in heterogeneous catalysis such as Tethered catalysts.
(For this chapter use **5th edition of Shriver Atkins - Inorganic Chemistry, Oxford University Press**)

3. **Bioinorganic Chemistry:** 15 P
 - a. Biological importance of essential and non essential elements.
 - b. Na/K Pump.
 - c. Metalloporphyrins : Structure of porphyrin molecule. **Haemoglobin** : Structure, function of haemoglobin. **Myoglobin** : Structure & function. Difference between haemoglobin & Myoglobin. **Chlorophyll** : Structure & function, Photosynthesis PS-I & PS-II.
 - d. Electron carrier proteins in biological system :
 - i. Iron sulfur proteins - Rubredoxin, ferredoxin.
 - ii. Cytochrome : Structure & function.
 - iii. Iron storage protein : Ferritin.
 - iv. Iron transporting biomolecule : Transferrin.
 - e. Biological enzymes : Nitrogenase and Superoxide dismutases.
 - f. Vitamin B₁₂ (Cyanocobalamin), structure and function.
(Inorganic Chemistry (Principles, structures and reactivity) (4th Edition): J.E.Huheey, E.A. Keitler and R.L. Keitler.)

4. **The Chemistry of elements in Medicine.** 07 P.
- Introduction
 - Chelation therapy.
 - Cancer treatment.
 - Anti-arthritis drugs.
 - Imaging agents.
- (For this chapter use **5th edition of Shriver Atkins - Inorganic Chemistry, Oxford University Press**).
5. **Structure of Ionic Solids :** 10 P
- Introduction, relation between limiting radius ratio, coordination numbers and shape.
 - Ionic structure of NaCl, rutile structure of TiO₂, β-cristobalite structure of SiO₂, and layer structure of CdI.
 - Stoichiometric defects : Introduction, Schottky defect, Frenkel defects.
 - Non stoichiometric defects : Metal excess defect - F-Centres, Interstitial ions and electrons. Metal deficiency defect - Positive ion absent, extra interstitial negative ions.
 - Semiconductors : Introduction, N & P types of semiconduction.
(Concise Inorganic Chemistry 5th edition, J.D. Lee).

Reference Books :

- Advanced Inorganic Chemistry, F.A. Cotton and Wilkinson, John Wiley.
- Inorganic Chemistry, J.E. Huheey, Harpes and Row.
- Inorganic Electronic Spectroscopy, A.B.P. Lever, Elsevier.
- Magneto chemistry, R.L. Carlin, Springer Verlag.
- Comprehensive Coordination Chemistry eds, G. Wilkinson, R.D. Gillars and J.A. McCleverty, Pergamon.
- Advanced Inorganic Chemistry : Satyaprakash, J.D. Tuli, Version I S.K. Basu and R.D. Madan.
- Advanced Inorganic Chemistry : Vol. I and II Gurudeep Raj.
- Concise Inorganic Chemistry : J.D. Lee.
- Principles of Inorganic Chemistry : Puri, Sharma and Kalia.
- Inorganic Chemistry (Principles, structures and reactivity) (4th Edition): J.E. Huheey, E.A. Keitler and R.L. Keitler.
- Inorganic Chemistry 3rd Edition : G.Y. Miessler and D.A. Tarr.
- Selected topics in Inorganic Chemistry : W.U. Malik, J.D. Tuli and R.D. Madan.
- Chemistry of the elements : N.N. Greenwood and A. Earnshaw.
- Symmetry and Spectroscopy of molecules : K. Veera Reddy.
- Physical Chemistry through Problems : Dogra and Dogra.
- Inorganic Chemistry : Atkin and Shriver.
- Elements of Magnetochemistry : A. Samal and R.L. Datta.
- Some Aspects of Crystal Field Theory : T.M. Dunn, D.S. McClure and R.G. Person.
- Introduction to Magnetochemistry : Alan Earnshaw.
- Introduction to Ligand Fields : B.N. Figgis.

**M. Sc. II Semester
Organic Chemistry II
Paper: X (CH - 422)**

Credit : 4

60P

1. Addition Reactions:

18P

A] Addition to Carbon – Carbon Multiple Bonds:

Mechanistic and stereochemical aspects of addition reactions involving electrophiles, nucleophiles and free radicals, regioselectivity and chemoselectivity, orientation and reactivity. Stereochemistry addition reaction- X_2 and HX in (E)-but-2-ene, (Z)-but-2-ene, fumaric acid, and cyclopentene. Addition to cyclopropane ring. Hydroboration, Michael reaction. Sharpless asymmetric Epoxidation.

B] Addition to Carbon – Hetero Multiple Bonds:

Mechanism of metal hydride reduction of saturated and unsaturated carbonyl compounds, acids, esters and nitriles. Addition of Grignard reagents, Organo-zinc and organo-lithium reagents to carbonyl and unsaturated carbonyl compounds.

Mechanism of Wittig reaction, Mannich, Benzoin, and Stobbe reaction.

2. Elimination Reaction:

6P

The E^2 , E^1 and E^1cB mechanisms and their spectrum. Orientation of the double bond. Reactivity: Effects of substrate structures, attacking base, the leaving group and the medium. Mechanism and orientation in pyrolytic elimination.

3. Pericyclic Reactions:

18P

Molecular orbital symmetry, Frontier orbitals of ethylene, 1,3-butadiene, 1,3,5-hexatriene and allyl system. Classification of pericyclic reactions. Woodward-Hoffmann correlation diagrams. FMO and PMO approach. Electrocyclic reactions- conrotatory and disrotatory motions, $4n$, $4n+2$ and allyl systems. Cycloadditions – antarafacial and suprafacial additions, $4n$ and $4n+2$ systems, $2+2$ addition of ketenes, 1,3-dipolar cycloadditions and cheletropic reactions.

Sigmatropic rearrangements: Suprafacial and antarafacial shifts of H, sigmatropic shifts involving carbon moieties, 3,3 and 5,5-Sigmatropic rearrangements. Claisen, Cope and aza-Cope rearrangements.

4. Stereochemistry:

18P

- a) Stereo chemical principles: Enantiometric relationships, Distereomeric relationships, R and S, E and Z nomenclature, Dynamic stereochemistry, Prochiral relationships. Homotopic, enantiotopic, distereotopic groups and faces. Stereo-specific and stereo-selective reactions.
- b) Introduction of optical activity in absence of chiral carbon (Biphenyls, Spiranes, Allenes).
- c) Conformational Analysis: Open chain compounds containing two chiral centers, Mono and dimethyl cyclohexane, cyclohexane-1,4-diol. Inter conversion of different projections (sawhorse-newman-fischer projections) Conformation of alpha and beta glucopyranose.

Reference Books:

1. Advanced Organic Chemistry-Reaction Mechanism and structure, Jerry March, John Wiley.
2. Advanced Organic Chemistry, F.A. Carey and R.J. Sundberg, Plenum.
3. A Guide Book to Mechanism in Organic Chemistry, Peter Sykes, Longman.
4. Structure and Mechanism in Organic Chemistry, C.K. Ingold, Cornell University Press.
5. Organic Chemistry, R.T. Morrison Boyd, Prentice-Hall.
6. Modern Organic Reactions, H.O. House, Benjamin.
7. Principles of Organic Synthesis, R.O.C. Norman and J.M. Coxon, Blackie Academic and Professional.
8. Reaction Mechanism in Organic Chemistry, S. M. Mukherji and S.P. Singh, Macmillan.
9. Advanced Organic Chemistry – Jagdamba Singh and L.D.S. Yadav.
10. Advanced Organic Chemistry Reaction and Mechanism– Maya Shanker Singh.
11. Stereochemistry of Organic Compounds, D. Nasipuri, New Age International.
12. Stereochemistry of Organic Compounds, P. S. Kalsi, New Age International.

M. Sc. II Semester
Physical Chemistry II
Paper: X1 (CH - 423)

Credit : 4

60P

- 1. Surface Chemistry: 24P**
- A. Adsorption:** a) Surface tension, capillary action, pressure difference across curved surface (Laplace equation).
b) Gibbs adsorption isotherm.
c) BET equation and estimation of surface area.
d) Surface films on liquids (Electro-kinetic phenomenon) and catalytic activity at surfaces.
Home assignment for students: Kelvin equation for vapour pressure of droplets.
- B. Micelles:** a) Surface active agents, classification of surface active agents.
b) Micellisation, hydrophobic interaction, critical micellar concentration (CMC), factors affecting the CMC of surfactants, counter ion binding to micelles, thermodynamics of micellisation - phase separation and mass action models.
Home assignment for students: solubilisation, micro emulsion reverse micelles.
- C. Macromolecules:** a) Polymers - definition, types of polymers, electrically conducting, fire resistant, liquid crystal polymers.
b) kinetics of polymerization, mechanism of polymerization.
c) Difference between polymers and macromolecules.
d) Molecular mass, number and mass average molecular mass, molecular mass determinations by i) osmometry, ii) viscometry, iii) diffusion and iv) light scattering methods.
Home assignment for students: Sedimentation, chain configuration of macromolecules, calculation of average dimensions of various chain structures.
- 2. Electrochemistry-II: 16P**
- a) Over potential, types of over potentials.
b) Exchange current density, Derivation of Butler-Volmer equation, Tafel plot.
c) Semi conductor interface. Theory of double layer at Semi conductor , electrolyte solution interface , effect of light at semiconductor, Solution interface.
d) Polarography, Theory, instrumentation, working and applications of the technique.
e) Introduction to corrosion, homogenous theory, forms of corrosion, Corrosion monitoring and prevention methods
- Home assignment for students:**
- a) Quantum aspect of charge transfer at electrodes –solution interfaces, quantisation of charge transfer, tunnelling
b) Electro catalysis influence of various parameters. Hydrogen electrodes,
c) Biochemistry, Threshold membrane phenomenon, Nernst-Planck equation.

3. Chemical Dynamics: 20P

- a) Methods of determining rate laws – i) Differential method and ii) Fractional change method.
- b) Theories of reaction rates – i) collision theory of reaction rates, steric factor, ii) Transition state theory, thermodynamic formulation of TST.
- c) Ionic reactions, kinetic salt effects.
- d) Dynamic chain (Kinetics of the reactions, thermal/photochemical) – i) pyrolysis of acetaldehyde , ii) decomposition of ethane, iii) hydrogen-chlorine reaction, iv) hydrogen-bromine reaction.
- e) Oscillatory reactions (Belousov-Zhabotinsky reaction).
- f) Enzyme catalysis, kinetics of enzyme reactions, Michalis - Menten equation.
- g) General features of fast reactions, study of fast reaction by flow method. Flash photolysis and the nuclear magnetic resonance method.
- h) Dynamics of unimolecular reactions - i) Lindemann hypothesis ii) Hinshelwood theory iii) K-R-R treatment and iv) Slater's theory .
- i) Numericals on (a) and (b).

Home assignment for students: a) Steady state kinetics, kinetic and thermodynamic control of reactions, treatment of unimolecular reactions. b) Dynamics and molecular motions, probing the transition state, dynamics of barrierless chemical reactions in solution.

c) Dynamics of unimolecular reactions (Rice-Ramsperger-Kassel - Marcus [RRKM] theory of unimolecular reactions.)

Books Suggested

- 1 Physical Chemistry -P.W. Atkins, ELBS.
- 2 Introduction to Quantum Chemistry -A.K.Chandra,Tata McGraw Hill.
- 3 Quantum Chemistry - Ira N.Levine, Prentice Hall.
- 4 Coulson's Valence -R. McWeeny ELBS.
- 5 Chemical Kinetics -K.J.Laidler, McGraw Hill.
- 6 Kinetics and Mechanism of Chemical Transformations -J.Rajaraman and J.Kuriacose, Macmillan.
- 7 Micelles, Theoretical and Applied Aspects - V.Moroi, Plenum
- 8 Modern Electrochemistry Vol.I & II, J.O.M. Bockris & A.K.N. Reddy, Plenum
- 9 Introduction to Polymer Science - V.R.Gowarikar, N,V.Vishwanathan & J.Sridhar, Wiley Eastern.
- 10 Advanced physical chemistry – J.N. Gurtu & A. Gurtu, A Pragati Edition,

M. Sc. II Semester
Principles of Spectroscopy
Paper: X11 (CH - 424)

Credit : 4

60P

1. **Unifying Principles:** **7P**

Electromagnetic radiation, interaction of electromagnetic radiation with matter-absorption, emission, transmission, reflection, refraction dispersion, polarisation and scattering. Uncertainty relation and natural line width and natural line broadening, transition probability, results of the time dependent perturbation theory, transition moment, selection rules, intensity of spectral lines.
Home assignment for students: Born-Oppenheimer approximation rotational, vibrational and electronic energy levels.
2. **Microwave Spectroscopy:** **3P**

Classification of molecules, rigid rotor model, effect of isotopic substitution on the transition frequencies, intensities, non-rigid rotor. Stark effect, nuclear and electron spin interaction and effect of external field.
Home assignment for students: Applications of Microwave Spectroscopy.
3. **Vibrational Spectroscopy:** **15P**
 - A. **Infrared Spectroscopy:** Review of linear harmonic oscillator, vibrational energies of diatomic molecules, zero point energy, force constant and bond strengths; anharmonicity, Morse potential energy diagram, vibration-rotation spectroscopy, P, Q, R, branches. Breakdown of Oppenheimer approximation; vibrations of polyatomic molecules. Selection rules, normal modes of vibration group frequencies, overtones, hot bands, factors affecting the band positions and intensities, far IR region, metal-ligand vibrations, normal co-ordinate analysis.
 - B. **Raman Spectroscopy:** Classical and quantum theories of Raman Effect. Pure rotational, vibrational and vibrational-rotational Raman spectra, selection rules, mutual exclusion principle. Resonance Raman Spectroscopy.
Home assignment for students: Coherent anti Stokes Raman Spectroscopy (CARS.)
4. **Electronic Spectroscopy** **15P**
 - A. **Atomic Spectroscopy:** Energies of atomic orbitals, vector representation of momenta and vector coupling, spectra of hydrogen atom and alkali metal atoms.
 - B. **Molecular Spectroscopy:** Energy levels, molecular orbitals, vibronic transitions, vibrational progressions and geometry of the excited states, Franck-Condon principle, electronic spectra of polyatomic molecules. Emission spectra; radioactive and non-radioactive decay, internal conversion, spectra of transition metal complexes, charge-transfer spectra.
 - C. **Photoelectron Spectroscopy:** Basic principles; photo-electric effect, ionization process, Koopman's theorem. Photoelectron spectra of simple molecules, ESCA, chemical information from ESCA.
Home assignment for students: Auger electron spectroscopy -basic idea.
5. **Magnetic Resonance Spectroscopy:** **20P**
 - A. **Nuclear Magnetic Resonance Spectroscopy:**

Nuclear spin, nuclear resonance, saturation, shielding of magnetic nuclei, chemical shift and its measurements. Factors influencing chemical shift. Deshielding, spin-spin interactions, factors influencing coupling constant 'J'. Classification (ABX, AMX, ABC, A₂B₂ etc.) spin decoupling; basic ideas about instrument. NMR studies of

nuclei other than proton - ^{13}C and ^{19}F . FT NMR, advantages of FT NMR, use of NMR in medical diagnostics.

Home assignment for students: . NMR studies of nuclei other than proton - ^{31}P

B. Electron Spin Resonance Spectroscopy:

Basic principles zero field splitting and Kramers' degeneracy, factors affecting the 'g' value. Isotropic and anisotropic hyperfine coupling constants, spin Hamiltonian, spin densities and McConnell relationship, measurement techniques, applications.

C. Nuclear Quadrupole Resonance Spectroscopy:

Quadrupole nuclei, quadrupole moments, electric field gradient, coupling constant splitting. Applications.

Books Suggested

1. Modern Spectroscopy - J.M. Hollas, John Wiley
2. Applied Electron Spectroscopy for Chemical Analysis Ed.H.Windawi & F.L.Wo.Wiley Interscience.
3. NMR, NQR, EPR and Mossbauer Spectroscopy in Inorganic Chemistry, R.V. Parish, Ellis Harwood.
4. Physical Methods in Chemistry - R.S. Drago, Saunders College.
5. Introduction to molecular Spectroscopy - G.M.Barrow, McGraw Hill.
6. Basic Principles of Spectroscopy - R.Chang, McGraw Hill.
7. Theory and Applications of UV Spectroscopy - H.H.Jaffe & M.Orchin,IBH-Oxford.
8. Introduction to Photoelectron Spectroscopy - P.K.Ghosh, John Wiley.
9. Introduction to Magnetic Resonance - A.Carrington & A.D.MacLachlan, Harper & Row.

**M. Sc. I Semester
Laboratory Course I
Paper: V (CH - 415) (Inorganic Chemistry)**

Credit : 4

132P

1. Record and viva voce 05 Mark

2. Detection of three acidic and three basic radicals from a given salt mixture.
Report the spot test of radicals.
(At least five mixtures) 15Mark

3. Preparation of metal complexes and characterized by spectral analysis.
 - a. Mercury tetra thiocyanato Cobalt(II)
 - b. Ammonium tetrathiocyanatodiammine Chromate(II) (Reineck's salt)
 - c. Potassium trioxalato ferrate(III)
 - d. Cis -potassium dioxalato diaquo chromate(III)
 - e. Bis(dimethyl glyoxime) Nickel (0) Complex
 - f. Hexamine Nickel(II) Chloride
 - g. Tris(Acetyl acetanato) Magnease(III)
 - h. Prussian blue complex.
 - i. Bis (Acetylacetone) oxovanadium(IV) Complex. 15Mark

4. Separation and estimation of one of the metal ion volumetrically.
 - a. Fe^{+3} and Zn^{+2}
 - b. Ni^{+2} and Cu^{+2}
 - c. Cu^{+2} and Ba^{+2}
 - d. Ni^{+2} and Zn^{+2}
 - e. Cu^{+2} and Fe^{+2}
 - f. Ba^{+2} and Mg^{+2}

15Mark

**M. Sc. I Semester
Laboratory Course II
Paper V1: (CH - 416) (Organic Chemistry)**

Credit : 4

132P

1. Techniques:

- a) Simple distillation.
- b) Steam distillation.
- c) Thin layer chromatography.
- d) Column chromatography.

2. Qualitative analysis:

- a) Separation, Purification, sample submission and identification of compounds of binary mixture (one solid and one liquid) by chemical method (Any six).
- b) Separation, Purification, sample submission and identification of compounds of binary mixture (solids) physical method (Any three).

3. Preparations (Double stage), (Any Four):

- a) Phthalic anhydride-phthalimide-Anthranilic acid.
- b) Acetophenone-oxime-Acetanilide.
- c) Phthalic anhydride-o-benzoyl benzoic acid-Anthraquinone.
- d) Chlorobenzene-2,4-dinitrochlorobenzene-2,4-dinitrophenol.
- e) Benzoin-benzil-benzilic acid.
- f) Acetanilide-p-bromoacetanilide-p-bromo aniline.

4. Use of Computer (ChemDraw, ChemSketch, ISI Draw):

Draw the structure of aliphatic, aromatic and heterocyclic compounds and get the correct IUPAC name.

Reference Book:

1. Vogel practical organic chemistry.

M. Sc. I Semester
Laboratory Course III
Paper : VI1 (CH - 417) (Physical Chemistry)

Credit : 4

132P

- N.B.** 1. Performance of eighteen experiments is expected
2. At least one experiment on each instrument should be done.
3. Student should prepare the required solutions

SECTION-A:
INSTRUMENTATION:

1. CONDUCTOMETER:

1. To estimate the concentrations of sulphuric acid, acetic acid and copper sulphate in given solution.
2. To determine solubility product and thermodynamic properties (ΔG , ΔH , ΔS) of sparingly soluble salts.
3. To determine the relative strength of chloroacetic acid and acetic acid.
4. To determine the hydrolysis constant of Aniline hydrochloride.
5. To investigate basic hydrolysis of ethyl acetate at four different temperatures and to find out the energy of activation .

2. POTENTIOMETER:

1. To determine PK_1 PK_2 values of Phosphoric acid.
2. To determine strength of strong acid and weak acid in given mixture.
3. To determine the oxidation state of metal ion by method of concentration cell without transference.

3. pH-METER:

1. To determine Hammett constant of given substituted benzoic acid.
2. To determine pH values of various mixtures of sodium acetate and acetic acid in aqueous solution and hence to find out dissociation constant of acid.

4. COLORIMETER

1. To determine equilibrium quotient for formation of mono thiocyanate iron(III) complex.
2. To determine Indicator constant of an indicator.
3. To determine concentration of Cu(II) iron in given solution titrating with E.D.T.A. solution.

5. REFRACTOMETER:

To determine the molar refractivity of methyl acetate, ethyl acetate,

n-hexane and carbon tetra chloride and to calculate refractive equivalence of C, H and Cl atom.

2. To study the variation of refractive index with composition of mixture of CCl_4 and ethyl acetate.

6. POLARIMETER.

1. To determine the relative strength of two acids.
2. To determine the percentage of two optically active substance (d-glucose and d-tartaric acid) in the mixture.

SECTION B

NON-INSTRUMENTATION

1. To determine partial molar volume of ethanol and water mixture at given Composition .
2. To determine molecular weight of high polymer by viscosity measurement.
3. To study the effect of surfactant on surface tension of water by using stalagmometer.
4. To determine solubility of benzoic acid at different temperature and hence to determine it's heat of solution.
5. To investigate the autocatalytic reaction between KMnO_4 and oxalic acid and to find energy of activation.
6. To determine the rate constant of hydrolysis of methyl acetate catalyzed by HCl.
7. To determine effect of ionic strength on rate constant of reaction between potassium per sulphate and potassium iodide.
8. To investigate the solubility of three component system and hence tie line on binodal curve.
9. To study the variation of viscosity with composition of mixture of
i) ethanol-water ii) methanol-ethylidene chloride
iii) nitric acid- Chloroform and determine whether or not there is compound formation between two liquids.
10. To determine surface tension of methyl acetate, ethyl acetate and chloroform and hence to calculate atomic parachors of C, H, Cl.
11. To determine order of reaction of given reaction kinetics by fractional change method.
12. To study distribution of benzoic acid between benzene and water at room temperature and hence show that benzoic acid dimerises in benzene.

**M. Sc. I Semester
Laboratory Course IV
Paper : V111(CH - 418) (Analytical Chemistry)**

Credit : 4

132P

**Section-A
(Instrumental)**

1. Conductometry

1. Determination of the strength of strong acid and weak acid from mixture solution conductometrically
2. Analysis of aspirin by conductometric method.

2. Potentiometry

1. Determination of the strength of halides in the given mixture using Potentiometry.
2. Determine the acid and basic dissociation constant of an amino acid (Glycine) and hence isoelectric point of an acid

3. pH-metry

1. Acid-base titration in non-aqueous media by pH-metry (benzoic acid in ethanol / NaOH).
2. Determination pK_a of weak acid by pH-metry.
3. Determination of degree of dissociation of weak electrolyte and to study the deviation from ideal behaviour that occurs with a strong electrolyte.

4. Colorimetry

1. Verification of Beer's law for a) KMnO₄ and Cu⁺² ammonia complex solution.
2. Determination of empirical formula for the formation of ferric salicylate complex by Job's method.
3. Determination of stability constant for the formation of complex between Fe⁺³ ions and 5-sulphosalicylic acid.

5. Polarimetry

1. Determination of rate constant for inversion of cane sugar by polarimetry.
2. Study of inversion of cane sugar by enzyme kinetics.
3. determine the percentage of two optically active substances in a mixture polarimetrically.

6. Flame photometry

1. Estimation of Na⁺ / K⁺ by Flame photometry.

Section-B
(Non-Instrumental)

1. Statistical analysis

1. Application of 't' test for experimental data.
2. Application of rejection criteria ('Q' test) for experimental data.
3. Treatment of analytical data with least square method applied to Beer's law for KMnO_4 solutions.

2. Chromatography

1. Separation of cations and anions by paper chromatography and determination of R_f values.
2. Determination of Ion-exchange capacity of a cation exchanger.
3. Determination of Ion-exchange capacity of an anion exchanger.

3. Chemical Kinetics

1. Investigate the reaction between bromic acid and hydroiodic acid.
2. To study the kinetics of iodination of acetone.

4. Heterogeneous equilibria:

1. Determine the formula of complex form between Cupric ion and ammonia by distribution method.
2. Investigate the solubility of three component system and hence draw a tie line on bimodal curve.
3. Determination of hardness of water by complexometric titration.

CHOICE BASED CREDIT SYSTEM (CBCS)
SEMESTER PATTERN
Post Graduate (PG) Programme in Chemistry
(Affiliated Colleges)
w.e.f. Academic year 2014-15
Question paper Model
(for all papers)

Mark : 75

Time: 3 hrs

- Q 1. Solve any three out of five. Marks – 15
- (a)
 - (b)
 - (c)
 - (d)
 - (e)
- Q 2. Attempt any three out of five. Marks – 15
- (a)
 - (b)
 - (c)
 - (d)
 - (e)
- Q 3. Solve. (A)
OR (A) Marks – 08
(B)
OR (B) Marks – 07
- Q 4. Solve. (A)
OR (A) Marks – 08
(B)
OR (B) Marks – 07
- Q 5. (A) Select the correct alternative from the following – Marks - 5
(B) Write short notes on any two – Marks - 10
- (a)
 - (b)
 - (c)

SEMESTER PATTERN
Graduate (UG) Programme in Chemistry
(Affiliated Colleges)
w.e.f. Academic year 2014-15
Question paper Model
(for all papers)

Mark : 40

Time: 2.30 hrs

Note:- 1) Use OMR sheet for question No.1

2) Use separate answer books for section A & section B

- Q 1. Ten MCQ Questions. Marks – 10
Section A -07 MCQ Questions
Section B -03 MCQ Questions

Section A

- Q 2. Attempt any two out of four. Marks – 10
- (a)
 - (b)
 - (c)
 - (d)

- Q3. Attempt any two out of four. Marks – 10
- (a)
 - (b)
 - (c)
 - (d)

Section B

- Q4. Attempt any two out of four. Marks – 10
- (a)
 - (b)
 - (c)
 - (d)

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,
NANDED**

**CHOICE BASED CREDIT SYSTEM (CBCS)
SEMESTER PATTERN
Post Graduate (PG) Programme in Chemistry
(Affiliated Colleges)
w. e. f. Academic year 2015-16**

**SYLLABUS FOR
M. Sc. PART – II
ORGANIC CHEMISTRY**

**Board of Studies in Chemistry
Swami Ramanand Teerth Marathwada University, Nanded**

Choice Based Credit System (CBCS)
Draft Syllabus Prescribed for
M. Sc. Second Year, ORGANIC CHEMISTRY
Semester-III & IV

2. ORGANIC CHEMISTRY (SEMISTER III & IV)

Semester	Paper	Course No.	Course	Periods / week	Total Periods	Credit
Theory III	XV	CH-531	Advanced Spectroscopic Methods	04	60	04
	XVI	CH-532/2	Natural Product	04	60	04
	XVII	CH-533/2	Organic Synthesis-I	04	60	04
	XVIII	CH-534/2	Elective Paper (any one)			
			A] Medicinal Chemistry	04	60	04
			B] Polymer Chemistry	04	60	04
	XIX		Seminar			01
					Total	17
Theory IV	XX	CH-541/2	Advanced Heterocyclic Chemistry	04	60	04
	XXI	CH-542/2	Bio-organic & Green Chemistry	04	60	04
	XXII	CH-543/2	Organic Synthesis-II	04	60	04
	XXIII	CH-544/2	Elective Paper (any one)			
			A] Medicinal Chemistry	04	60	04
			B] Polymer Chemistry	04	60	04
	XXIV		Seminar			01
					Total	17
Practical III & IV	XXV	CH-501/2	Laboratory Course-V	06	132	04
	XXVI	CH-502/2	Laboratory Course-VI	06	132	04
	XXVII	CH-503/2	Laboratory Course-VII	06	132	04
	XXVIII	CH-504/2	Laboratory Course-VIII	06	132	04
						Total
					Grant Total	50 Credits

Instructions

- I] Each Laboratory Course of 6 Hrs duration should be completed in 6 Hrs per day.
- II] Assessment shall consist of continuous assessment (CA) and end of Semester examination (ESE).
- III] 75% for ESE and 25% for CA.
- IV] Paper-(Elective): Transfer of credit as per student choice.
- V] Evaluation of Seminar should be from panel of experts.

Draft Syllabus Prescribed for
M. Sc. Second Year, ORGANIC CHEMISTRY
Semester-III & IV

2. ORGANIC CHEMISTRY (SEMISTER III & IV)

Semester	Paper	Course No.	External (ESE)	Internal (CA)	Total Credits (Marks)
Theory III	XV	CH-531	75 Marks	2 Tests: 15 marks + Assignment: 10 Marks = 25 marks	04 (100)
	XVI	CH-532/2	75 Marks	2 Tests: 15 marks + Assignment: 10 Marks = 25 marks	04 (100)
	XVII	CH-533/2	75 Marks	2 Tests: 15 marks + Assignment: 10 Marks = 25 marks	04 (100)
	XVIII	CH-534/2	75 Marks	2 Tests: 15 marks + Assignment: 10 Marks = 25 marks	04 (100)
	XIX		25 Marks		01
Theory IV	XX	CH-541/2	75 Marks	2 Tests: 15 marks + Assignment: 10 Marks = 25 marks	04 (100)
	XXI	CH-542/2	75 Marks	2 Tests: 15 marks + Assignment: 10 Marks = 25 marks	04 (100)
	XXII	CH-543/2	75 Marks	2 Tests: 15 marks + Assignment: 10 Marks = 25 marks	04 (100)
	XXIII	CH-544/2	75 Marks	2 Tests: 15 marks + Assignment: 10 Marks = 25 marks	04 (100)
	XXIV		25 Marks		01
					17
Practical III & IV	XXV	CH-501/2	75 Marks	2 Tests: 25 marks	04 (100)
	XXVI	CH-502/2	75 Marks	2 Tests: 25 marks	04 (100)
	XXVII	CH-503/2	75 Marks	2 Tests: 25 marks	04 (100)
	XXVIII	CH-504/2	75 Marks	2 Tests: 25 marks	04 (100)
Total Credits Sem III & IV + Lab Course = 17 + 17 + 16 = 50					

M. Sc. Second Year, Semester-III
Paper–XV, [CH-531]
Advanced Spectroscopic Methods

Credits: 04

Periods: 60

SM-1: UV-Vis Spectroscopy:
SM-2: IR spectroscopy:
SM-3: NMR Spectroscopy (Organic):
SM-4: NMR Spectroscopy (Inorganic):
SM-5: Mass Spectroscopy:
SM-6: Moissabaur Spectroscopy:
SM-7: Structural problems:

SM-1: UV-Vis Spectroscopy: 06P

Fieser-Woodward rules for conjugated dienes and carbonyl compounds, Fieser-Kuhn rules for polyenes. UV spectra of aromatic compounds and heteroaromatic compounds. Calculation of λ_{\max} for the benzene derivatives (R-C₆H₄-Co-G) by A. I. Scott empirical rules.

SM-2: IR spectroscopy:

Organic IR spectroscopy: Recapitulation, Characteristic vibration frequencies of alkanes, alkenes, alkynes, aromatic compounds, alcohols, ethers, phenols and amines. Detailed study of vibrational frequencies of carbonyl compounds Ketones, aldehydes, esters, amides, acids, anhydride, Lactose, lactams and conjugated carbonyl compounds. Factors affecting group frequencies: overtones, combination bands and Fermi-resonance. FITR and sampling technique. **06P**

Inorganic IR spectroscopy: Structural information from vibrational spectra: Group frequencies, Characteristic band stretching frequencies, Mode of vibrations of linear and non-linear molecules, deformation, frequencies of carbonyl metal complexes, pattern of group frequencies, mode of bonding of ambidentate ligands, Cyanides, Ethylenediamine and Diketone complexes. **04P**

SM-3: NMR Spectroscopy (Organic): 14P

a) **¹H NMR:** General introduction and definitions, Chemical shift, Spin-spin interaction, shielding mechanism of measurement of chemical shift values and correlation for protons bonded to carbon (aliphatic, olefinic, aldehyde and aromatic) and other nuclei (alcohols, phenols, enols, carboxylic acids, amines, amides and mercapto). Factors affecting chemical shift. Deuterium exchange. Spin-spin coupling, factors affecting coupling constant. Complex spin-spin interaction between two and three nuclei. Simplification of complex spectra, nuclear magnetic double resonance, contact shift reagents, solvent effects. Fourier transform technique. Nuclear Over-Hauser effect (NOE). Resonance of other nuclei; ¹⁹F and ³¹P.

b) **¹³C NMR:** Resolution and multiplicity of ¹³C NMR, 1H-decoupling, noise decoupling, broad band decoupling; Deuterium, fluorine and phosphorus coupling; NOE signal enhancement, off-resonance, proton decoupling, Structural applications of CMR. DEPT; Introduction to 2D-NMR: COSY, NOESY, DEPT, INPET, APT, INADEQUATE.

SM-4: NMR Spectroscopy (Inorganic): **06P**

- a) Basic principle of NMR spectroscopy and applications to Paramagnetic compounds and metal nuclei of Pt ¹⁹⁵ and Sn ¹¹⁹.
- b) Basic principle and applications of ESR spectroscopy to different free radical molecules and transition metal ion complexes.

SM-5: Mass Spectroscopy: **08P**

Theory, instrumentation and modifications; Unit mass and molecular ions; Important terms- singly and doubly charged ions, metastable peak, base peak, isotropic mass peaks, relative intensity, FTMS, etc.; Recognition of M⁺ ion peak; General fragmentation rules: Fragmentation of various classes of organic molecules, including compounds containing oxygen, sulphur, nitrogen and halogens; α-, β-, allylic and benzylic cleavage; McLafferty rearrangement.

SM-6: Moissabaur Spectroscopy: **06P**

Basic principle of Moissabaur Spectroscopy, applications on the basis of isomer shifts, electric quadrupole interactions. Elucidation of structure of I₂Br₂Cl₄, I₂Cl₆, Fe⁺² and Fe⁺³ complexes and Sn⁺² and Sn⁺⁴ compounds

SM-7: Structural problems: **10P**

- a) Combined problems on UV, IR, NMR and Mass spectral data for structure determination.
- b) Elucidation of structure of organic molecules using spectra (IR & NMR).

Reference Books:

1. Spectroscopic identification of Organic Compounds, R. M. Silverstern, G. C. Bassler and T. C. Morril.
2. Introduction to NMR spectroscopy, R. J. Abraham, J. Fisher and P. Loftus.
3. Application of spectroscopy of organic compounds – J. R. Dyer.
4. Spectroscopy of organic compounds, P. S. Kalsi.
5. Organic Spectroscopy, William Kamp.
6. Organic Chemistry, R. T. Morrison and R. N. Boyd.
7. Practical NMR spectroscopy, M. L. Martin, J. J. Delpench and G. J. Martin.
8. Spectroscopic methods in organic Chemistry, D. H. William, I. Fleming.
9. Fundamentals of Molecular spectroscopy – C.N.Banwel

M. Sc. Second Year (Semester-III)
Paper–XVI [CH-532/2]
Natural Products

Credits: 04

Periods: 60

NP-1: Vitamins:
NP-2: Terpenoids and Carotenoids:
NP-3: Alkaloids:
NP-4: Steroids:
NP-5: Plant pigments:
NP-6: Prostaglandins, pyrethroids, Rotenones and pheromones.

NP-1: Vitamins: 08P
Classification, Occurrence Chemistry of Vitamins A, C and E Structure elucidation and synthesis. Deficiency syndromes etc.

NP-2: Terpenoids and Carotenoids: 12P
Classification, nomenclature, Occurrence, isolation, isoprene rule, structure determination, stereochemistry and biogenesis of the following molecules Citral, Camphor, Menthol, Farnesol, Zingiberene, Abietic acid. Biosynthesis of terpenoids

NP-3: Alkaloids: 08P
Structure, stereochemistry and synthesis of quinine and morphine

NP-4: Steroids: 12P
Occurrence, Nomenclature, Basic Skeleton, Diel's hydrocarbon and Stereochemistry. Structure determination and synthesis of Cholesterol, Bile acid, Androsterone, Testosterone, Oestrone, Aldosterone and Progesterone.

NP-5: Plant pigments: 10P
Occurrence, nomenclature and general methods of structure determination of Anthocyanidins. Synthesis of Cyanidin Chloride, Chalcones, Flavones, Quercetin.

NP-6: Prostaglandins, pyrethroids, Rotenones and pheromones. 10P
Occurrence, classification. Biogenesis, physiological effects and synthesis of PGE₂ and PGF_{2z}. Natural and synthetic of pyrethroids, Rotenones and pheromones. Synthesis of bombykol.

Books Suggested:

1. Natural products : Chemistry and Biological significance, J. Mann, R. S. Davidson, J. B. Hobbs, D. V., Banthropde & J. B. Harborne.
2. Organic Chemistry, vol-2, I. L. Finar.
3. Stereoselective synthesis: a practical Approach, M. Nogrudi.
4. Rodd's Chemistry of carbon compounds, Ed. S. Coffey.
5. Chemistry, Biological and Pharmacological properties of Medicinal plants from the Americans, Ed. Kurt. Hostettmann, M. P. Gupta and A. Marston.
6. Introduction to Flavonoids, B. A. Bohm.
7. Neco trends in natural products Chemistry, Ata-ur-Rahaman and M. I. Choudhary.

M. Sc. Second Year, Semester-III
Paper–XVII; CH-533/2
Organic Synthesis- I

Credits: 04

Periods: 60

- OS-1: Transformations and Rearrangements:
OS-2: Selective Organic Reactions:
OS-3: Oxidation:
OS-4: Reduction:

- OS-1: Transformations and Rearrangements: 18P**
General Mechanistic Consideration, Nature of migration, migratory aptitude, stereochemical aspects and Memory Effects of following rearrangements
1.1 Introduction types and classification of rearrangements.
1.2 Rearrangement to Electron Deficient Carbon: Pinacol-pinacolone, Wagner-Meerwein, Benzilic acid, Wolf (Arndt–Eisterts Synthesis) Rupe and Demjanov Rearrangements.
1.3 Rearrangement to Electron Deficient Nitrogen: Hofman, Curtius, Schimdt, Lossen and Beckmann rearrangements
1.4 Rearrangement to Electron Deficient Oxygen: Baeyer-Villiger rearrangement.
1.5 Rearrangement to Electron Rich Carbon: Favorskii, Wittig, Neber and Steven's rearrangements.
1.6 Aromatic Rearrangement: Fries, Claisen and Benzidine rearrangement.
- OS-2: Selective Organic Reactions: 16P**
Mechanism, Stereochemistry and Synthetic Applications of following reactions
2.1 Stork Enamine, Chichibabin, Diels-Alder, Bucherer, Ullmann, Shapiro, Barton, Chugaev, Biginelli, Prins, Hunsdiecker Reactions.
2.2 Negishi, Suzuki, Buchwald-Hartwig Cross, Stille, Heck and Yamamoto coupling reactions.
- OS-3: Oxidation: 14P**
Introduction, different oxidative processes.
3.1 Alcohols to carbonyl compounds: Chromium (VI) oxidants, Dimethyl sulfoxide and its modifications (Swern Oxidation), Manganese (IV) oxide, Silver carbonate, Hypervalent iodine(III) and (V) reagents ceric ammonium nitrate (CAN).
3.2 Alkenes to epoxides: Peroxide induced epoxidation-epoxidation by H_2O_2 , hydroperoxides and peroxyacids.
3.3 Alkenes to diols: oxidation by potassium permanganate, Osmium tetroxide and its stereochemical consideration, Prevost oxidation and Woodward modifications.
3.4 Oxidative cleavage of 1,2-diols: Periodic acid.
3.5 Oxidation of allylic and benzylic C-H bonds: NBS, DDQ, Chloranil T, SeO_2 .
- OS-4: Reduction: 12P**
Introduction, different reductive processes.
4.1 Catalytic hydrogenation: Homogeneous and heterogeneous catalytic reductions. Dissolving metal reductions including Birch reduction.
4.2 Non-metallic reductions: Wolff-Kishner and diimide reductions, Hantzsch ester.
4.3 Metal hydride reductions: Nucleophilic metal hydrides, Sodium cyanoborohydride $LiAlH_4$.
4.4 Electrophilic metal hydrides: BH_3 and AlH_3 .
4.5 Hydrogenolysis: Use of tri-n-butyl tin hydride.

Books Suggested

1. Designing Organic Synthesis – S. Warren, Wiley
2. Some Modern Methods of Organic Synthesis, W.Carrathers, Cambridge Univ.Press
3. Modern synthetic reactions, H.O.House, W.A.Benjamin
4. Advanced Organic Reactions, Reactions, Mechanisms and Structure, J.March, Wiley
5. Principles of Organic Synthesis, R.O.C. Norman and J.M.Coxon, Blackie Academic and Professional
6. Advanced Organic Chemistry Part-B,F.A.Carey and R.J.Sundberg, Plenum P.
7. Organic Reaction and Their mechanisms, P.S.Kalsi, New Age International Publishers
8. Protective Groups in Organic Synthesis, T.W.Greene and P.G.M. Wuts. II nd Edition, John Wiley and Sons 1991
9. Organic synthesis : The Disconnection Approach, Stuart Warren, John Wiley and sons.

M. Sc. Second Year, Semester-III
Paper–XVIII; CH-534/2A
Medicinal Chemistry- I

Credits: 04

Periods: 60

- MC-1: Concepts of Medicinal Chemistry, Classification and Nomenclature of Drugs.
MC-2: Drug Design:
MC-3: Pharmacokinetics and Pharmacodynamics.
MC-4: Drug metabolism.
MC-5: Antimicrobial drugs.
MC-6: Antibiotics
MC-7: Coagulant and Anticoagulant.

MC-1: Concepts of Medicinal Chemistry, Classification and Nomenclature of Drugs.

06P

- A) Concepts of Medicinal chemistry:** Important terminology in medicinal chemistry: Drugs, Pharmacy, Pharmaceutics, Toxicology; Pharmacodynamic agents, Pharmacophore, Pharmacodynamics, metabolite and antimetabolites, chemotherapy. Mechanism of chemotherapeutic actions: 1) Biological defences 2) Chemical defences. a) Surface active agent, b) Metabolic antagonism. Assay of Drugs: Chemical assay, Biological assay, Immunological assay, LD-50 and ED-50.
- B) Classification and Nomenclature of Drugs:**
- i) Classification of drugs on the basis of therapeutic action.
 - a) Chemotherapeutic agents, b) Pharmacodynamic agents.
 - ii) Nomenclature of drugs: Naming of drugs according to IUPAC system
 - a) Naming of organic groups, b) Naming of heterocyclic nuclei.
 - iii) Differentiate medicine and drugs.

MC-2: Drug Design:

18P

- A] Drug Discovery.**
- i) Introduction
 - ii) Procedure followed in drug design.
 - a) Drug discovery without a lead, b) Lead discovery.
 - iii) Lead modification: Drug design and development
 - a) Identification of the active part: The pharmacophore, b) Functional group modification, c) Structure-activity relationship, d) Structure modification to increase potency and the therapeutic index; 1) Homologation, 2) Chain branching, 3) Ring-chain transformation., 4) Bioisosterism, 5) Combinatorial chemistry.
 - iv) Structural modification to increase oral bioactivity.
 - 1) Electronic effect, 2) The Hammett equation, 3) Lipophilicity effect.
- B] Concept of prodrugs and soft drugs.**
- a) Prodrugs: i) Prodrug designing, types of prodrugs, ii) Prodrug formation of compounds containing various chemical groups, Prodrugs and drug delivery system
 - b) Soft drugs: i) Soft drug concept, ii) Properties of soft drug.

- C] Theories of drug activity.**
i) Occupancy theory, ii) Rate theory, iii) Induced theory.
- D] QSAR method:**
Introduction, Methods used in QSAR studies, Hansch method, Free-Wilson method, Advantages and disadvantages of free approach, Computer based methods of QSAR related to receptor binding, Physico-Chemical properties, Lipophilicity, Electronic parameters, Steric substituent constants, Experimental determination of partition coefficients.
- E] Structure based drug design.**
i) Process of structure based drug design, ii) Deactivation of certain drug, iii) Determination of the structure of the protein, iv) Design of inhibitors.
- F] Molecular modelling using computers.**
i) Introduction
ii) Uses of molecular modelling: a) Manual use, b) Further-computer programming, c) X-ray crystallography.
- G] Design of Enzyme inhibitors.**
i) Introduction, ii) Competitive inhibitors, iii) Active-site directed irreversible inhibition of enzymes, iv) Suicide enzyme inactivation.
- H] New developments Gene therapy and drug resistance.**

MC-3: Pharmacokinetics and Pharmacodynamics. 09P

- A] Pharmacokinetics:**
a) Drug absorption, b) Distribution, c) Elimination., d) Disposition
- B] Pharmacodynamics.**
a) Introduction, Elementary treatment of enzyme inhibition, b) Membrane active drug, c) Sulphonamides
- Mechanism of action of following drugs:**
Action of CNS disorder, inflammation, cardiac dysfunction.

MC-4: Drug metabolism. 05P
I] Introduction, II] Oxidation, III] Reduction, IV] Hydrolysis, V] Conjugation.

MC-5: Antimicrobial drugs. 08P

- A] Antitubercular drugs:** Introduction.
a) First-line agents (Primary tubercular drugs): Structure and activity of streptomycin and dihydro-streptomycin, Synthesis and SAR of 4-amino salicylic acid and isoniazid.
b) Second line agents (Secondary antitubercular agents): Structure and activity of Rifampicin, Cycloserine, Viomycin, Ethionamide, Ethambutol, Thioacetazone. (Synthesis of Cycloserine and Ethambutol expected)
- B] Antileprotic drugs.**
Chaulmoogra and hydnocarpus oil, Multidrug therapy, SAR of sulphones, Dapsone (DDS), Acedapsone, Solapsone, Diaminodipheyl thiourea, Rifampicin. (Synthesis of Acedapsone expected)

MC-6: Antibiotics. 08P

1. Introduction, classification of antibiotics, 2. Cell wall synthesis, 3. Mechanism of action of antibiotics, a) Inhibition of cell-wall synthesis, b) Inhibition of bacterial protein synthesis, c) Disorganization of the cytoplasmic membrane, d) Interference in the bacterial nucleic acid synthesis, e) Inhibition of the tetrahydro-folate biosynthesis

I) Cell wall synthesis inhibitors (β -Lactam antibiotics): Synthesis of Penicillin-V, Penicillin-G, amoxicillin, ampicillin from 6-APA, cephalixin, Structure and activity of benzyl penicillin, semi-synthetic penicillin, cephalosporin, Mode of action of penicillin and cephalosporin.

II) Protein synthesis inhibitors: Structure activity of tetracycline and synthesis of chlortetracycline, Synthesis and SAR of chloramphenicol, Mode of action of chloroamphenicol.

MC-7: Coagulant and Anticoagulant.

06P

Mechanism of blood clotting, Coagulant, Vitamin-K, Vitamin-K analogues, anticoagulant, Action of anticoagulant, Heparin, Coumarin derivatives, Synthesis of 4-hydroxy coumarin, Dicoumarol, Structure activity coumarin derivatives.

Suggested Books:

1. Medicinal chemistry-William O. Foye
2. T. B. of Organic medicinal and pharmaceutical chemistry-Wilson and Gisvold's (Ed. Robert F. Dorge)
3. An introduction to medicinal chemistry-Graham L. Patrick
4. Principles of medicinal chemistry (Vol. I and II)-S. S. Kadam, K. R. Mahadik and K. G. Bothara (Nirali prakashan)
5. Medicinal chemistry (Vol. I and II)-Burger
6. An introduction to drug design-S. S. Pandeya and J. R. Dimmock (New age international)
7. The organic chemistry of drug design and drug action-R. B. Silverman (Academic Press)
8. Strategies for organic drug synthesis and design-D. Lednicer Wiley
9. Pharmacological basis of therapeutics-Goodman and Gilman's (McGraw Hill)

M. Sc. Second Year, Semester-III
Paper–XVIII; CH-534/2B
Polymer Chemistry – I

Credits: 04

Periods: 60

- PC-1: Basics
- PC-2: Polymer characterization
- PC-3: Structure and properties
- PC-4: Polymer processing

PC-1: Basics **12P**

Important of polymers, Basic concepts; Monomers, repeat units, degree of polymerization. Linear, branched and network polymers. Classification of polymers. Polymerization: Condensation, addition, radical chain, ionic and co-ordination, and co-polymerization, Polymerization conditions and polymer reactions. Polymerization in homogenous and heterogeneous systems.

PC-2: Polymer characterization **16P**

Polydispersion – average molecular weight concept, Weight, and viscosity average molecular weights. Polydispersity and molecular weight distribution. The practical significance of molecular weight. Measurement of molecular weights. End group, viscosity, light scattering, osmotic and ultracentrifugation methods. Analysis and testing of polymers – chemical analysis of polymers, spectroscopic methods, X-ray diffraction study. Microscopy, Thermal analysis and Physical testing, tensile strength. Fatigue, impact, Tear resistance. Hardness and abrasion resistance.

PC-3: Structure and properties **16P**

Morphology and order in crystalline polymers configurations of polymer chains. Crystal structures of polymers. Morphology of crystalline polymers. Strain-induced morphology, crystallization and melting. Polymer structure and physical properties – crystalline melting point T_m – melting points of homogenous series, effect of chain flexibility and other steric factors, entropy and heat of fusion. The glass transition temperature. T_g ; Relationship between T_m and T_g , effects of molecular weight, diluents, chemical structure, chain topology, branching and cross-linking, property requirements and polymer utilization

PC-4: Polymer processing **16P**

Plastics: elastomers and fibres, compounding. Processing techniques: Calendering, die-casting, rotational casting, film casting, injection moulding, blow moulding, extrusion moulding, thermo forming, foaming, reinforcing and fibre spinning.

Books suggested:

1. Text book of Polymer science ; F.w.Billmeyer J.Willey
2. Polymer science, V.R.Gowariker, N.V.Vishwanathan and J. Sreedhar.
3. Principles of Polymerization, George Odian III.Ed.
4. Organic Polymer Chemistry, K.J.Saunders
5. Polymer Chemistry, Golding
6. Principles of Polymer Chemistry, Flory
7. Physical Chemistry of Macromolecules, D.D.Deshpande,
8. Functional monomers and polymers, K.Takemoto, V.Inaki and R.M.Ottanbrite
9. Contemporary polymer chemistry, H.R.alkock and F.W.Lambe, Prentice Hall
10. Physics and Chemistry of polymers, J.M.G.Cowie, Blackie Academic and Professional

M. Sc. Second Year, Semester-IV
Paper-XX; CH-541/2
Advanced Heterocyclic Chemistry

Credits: 04

Periods: 60

- HC-1: Introduction to Heterocycles
HC-2: Nonaromatic heterocycles
HC-3: Five and six-membered heterocycles with two hetero atoms
HC-4: Heterocycles with more than two hetero atoms.
HC-5: Larger ring and other heterocycles
HC-6: Banzanellated azoles and dipolar structures.

HC-1: Introduction to Heterocycles: 06P
Nomenclature (Hantzsch Widman System), spectral characteristics, reactivity and aromaticity of monocyclic, fused and bridged heterocycles.

HC-2: Nonaromatic heterocycles: 10P
Different types of strains, interactions and conformational aspects on nonaromatic heterocycles. Synthesis, reactivity, and importance of the following ring systems. Azirines, Oxaranes, Thiiranes, Diazirenes, Diaziridines, Azetidines.

HC-3: Five and six-membered heterocycles with two hetero atoms: 10P
Synthesis, reactivity, aromatic character and importance of the following heterocycles: Pyrazole, Imidazole, Oxazole, Thiazole, Pyrimidine, Pyrazine, Oxazine, and Thiazine.

HC-4: Heterocycles with more than two hetero atoms: 10P
Synthesis, reactivity, aromatic character and importance of the following heterocycles: Triazoles, Oxadiazoles, Thiadiazoles, Triazines.

HC-5: Larger ring and other heterocycles: 12P
Synthesis and reactivity of Azepines, Oxepines and Thiepinines. Synthesis and rearrangement of Diazepines. Synthesis of Benzoazepines, Benzodiazepines, Benzooxepines, Benzothiepinines, Azocines, and Azonines.

HC-6: Banzanellated azoles and dipolar structures: 12P
Banzanellated azoles: Synthesis and reactivity of Benzimidazoles, Benzoxazoles and Benzothiazoles. Heterocycles with Ring-Junction nitrogen: Synthesis and reactivity of Quinolizines, Indolizines and Imidazopyridines. Heterocycles with Dipolar structures: Betaines: Formation, aromaticity and reactivity of pyridine-N-oxides and pyridinium imides. Mesoionic heterocycles: Synthesis and aromaticity of sydnones and 1,3-dipolar addition reaction of mesoionic heterocycles.

Recommended books :

1. Heterocyclic Chemistry, T. L. Gilchrist.
2. An Introduction to the Chemistry of Heterocyclic compounds, R. M. Acheson.
3. Heterocyclic chemistry, J. A. Joule & K. Mills.
4. Principals of Modern Heterocyclic Chemistry, A. Paquette.
5. Heterocyclic Chemistry, J. A. Joule & Smith.
6. Handbook of Heterocyclic Chemistry, A. R. Katritzky.

M. Sc. Second Year, Semester-IV
Paper-XXI; CH-542/2
Bio-Organic and Green Chemistry

Credits: 04

Periods: 60

BOGC-1: Enzyme Chemistry.

BOGC-2: Nucleic acids.

BOGC-3: Heterocycles.

BOGC-4: Introduction to Green Chemistry.

BOGC-5: Microwave induced and ultrasound assisted green synthesis.

BOGC-6: Ionic liquids as green solvents and use of biocatalysis.

BOGC-1: Enzyme chemistry

15P

a] Enzymes: Introduction and historical perspective, chemical and biological catalysis, remarkable properties of enzymes like catalytic power, specificity and regulation. Nomenclature and classification, extraction and purification. Fischer's lock and key and Koshland's induced fit hypothesis, concept and identification of active site by the use of inhibitors, affinity labeling and enzyme modification by site-directed mutagenesis. Baker's yeast catalyzed reactions, Applications of enzymes in food and drug chemistry

b] Mechanism of Enzyme Action: Transition-state theory, orientation and steric effect, acid-base catalysis, covalent catalysis, strain or distortion. Example of some typical enzyme mechanisms for chymotrypsin, ribonuclease, lysozyme and carboxypeptidase A.

c] Co-Enzyme Chemistry: Cofactors as derived from vitamins, coenzymes, prosthetic groups, apoenzymes. Structure and biological functions of coenzyme A, thiamine pyrophosphate, pyridoxal phosphate, NAD⁺, NADP⁺, FMN, FAD, lipoic acid, vitamin B12. Mechanisms of reactions catalyzed by the above cofactors.

BOGC-2: Nucleic acids.

10P

Introduction, hydrolysis of nucleic acids, Structure physical and chemical properties of the heterocyclic bases-adenine, guanine. Cytosine, Uracil and Thiamine. Structure and synthesis of nucleosides and nucleotides.

Deoxyribose nucleic acid (DNA): Primary, secondary, tertiary structure of DNA. Structure of RNA. Types of RNA-mRNA, rRNA and tRNA. Purines and pyrimidine bases of nucleic acids and their preparation.

Lipids: Fatty acids, essential fatty acids, structures and functions of triglycerols, glycerophospho lipids, spingolipids, lipoproteins, composition and function, role in atherosclerosis

BOGC-3 Heterocycles

15P

A] Azoles: Structural and chemical properties; Synthesis of pyrazole, isothiazole and isoxazole; Synthesis of imidazoles, thiazoles and oxazoles; Nucleophilic and electrophilic substitutions; Ring cleavages.

B] Benzofused heterocycles: Synthesis of indole, benzofuran and benzo-thiophene, quinoline and isoquinoline Nucleophilic, electrophilic and radical substitutions; Addition reactions; Indole rings in biology.

C] Diazines: Structural and chemical properties; Synthesis of pyridazines, pyrimidines, pyrazines; Nucleophilic and electrophilic substitutions.

BOGC-4: Introduction to Green Chemistry.

10P

Introduction, Need for Green Chemistry, Principles, Concept of atom economy and scope. Atom economy in addition, substitution, elimination and rearrangement

reactions. Inception to green chemistry. Introduction to alternative approaches. Green Chemistry in Pharmaceuticals, pesticides, polymers, computer chips etc.

Solvent free reactions-principle, scope, utility of solvent free conditions, controlling solvent free reactions. Phase changes, optimum reaction temperatures, miscibility of reactants and catalysts.

Basic principles of green synthesis. Different approaches to green synthesis-

A) use of green reagents in green synthesis-dimethyl carbonate, polymer supported reagents- peracids, chromic acids.

B) Green catalysts: Acid catalysts, oxidation catalysts, basic catalysts. Applications of zeolites.

C) Phase transfer catalyst in green synthesis: Aliquat 336, benzyltrimethyl ammonium Chloride (TMBA), Tetra-n-butyl ammonium chloride.

D) Advantages of PTC reactions to green synthesis. Applications of PTC's in Calkylation, n-alkylation, s-alkylation, darzens reaction, Williamsons synthesis and wittig reaction.

BOGC-5: Microwave induced and ultrasound assisted green synthesis. 05P

Introduction to synthetic organic transformations under microwave.

a) Microwave assisted reactions in water: Hoffmann elimination, hydrolysis, oxidation, saponification reactions.

b) Microwave assisted reactions in organic solvents: Esterification reactions, Fries rearrangement, Orthoester Claisen rearrangement, Diels-Alder reaction, decarboxylation.

c) Microwave solvent free reactions (Solid state reactions): Deacetylation, deprotection, saponification of ester, alkylation of reactive methylene compounds, synthesis of nitriles from aldehydes, reductions.

d) Ultrasound assisted reactions: Introduction, substitution reactions, addition, oxidation, reduction reactions.

BOGC-6: Ionic liquids as green solvents and use of biocatalysis. 05P

a) Ionic liquids as green solvents-green solvents, reactions in acidic ionic liquids and in neutral ionic liquids (Hydrogenation, Diels-Alder reaction, O-alkylation and Nalkylation).

b) Biocatalysts in organic synthesis: Introduction, i) Biochemical Oxidation and reduction (microbial)-production of fine chemicals, vitamins and amino acids. ii) by microorganisms-production of penicillins, streptomycin and chloremphenicol.

Books Suggested:

1. Natural products: Chemistry and Biological significance, J.Mann, R.S.Davidson, J.B.Hobbs, D.V., Banthropde & J. B. Harborne, Longman, an, Essex.
2. Organic Chemistry, vol-2, I. L. Finar, ELBS.
3. Stereoselective Synthesis: A practical Approach, M. Nogrudi, VCH.
4. Organic Synthesis in water, Paul A. Grieco Blackie.
5. Green Chemistry, theory and practice, Paul T. Anastas and John C. Warner.
6. New Trends in Green chemistry, V. K. Ahluwalia and M. Kidwai.
7. Organic Synthesis: Special techniques, V. K. Ahluwalia and Renu Aggarwal
8. Bioorganic Chemistry: A Chemical Approach to Enzyme Action, Hermann Dugas and C. Penny, Springer-Verlag
9. Enzyme Chemistry: Impact and Applications, Ed. Collin J. Suckling, Chapman and Hall
10. Enzyme Structure and Mechanism, A. Fersht, W. H. Freeman
11. Heterocyclic chemistry by Joule and Mills.
12. Modern Heterocyclic chemistry by L. A. Paquette, Benjamin.
13. Advanced organic chemistry by – Carry and Sundberg
14. Mechanism and structure in organic chemistry by – E. S. Gould, Holt, Rinehart and Winston.

M. Sc. Second Year, Semester-IV
Paper- XXII, CH-543/2
Organic Synthesis- II

Credits: 04

Periods: 60

OS-1: Organic Reagents:
OS-2: Reterosynthetic Analysis-I:
OS-3: Reterosynthetic Analysis-II:
OS-4: Designing Organic Synthesis:

OS-1: Organic reagents: 18P

1.1 Organo metallic Reagents.

Principle, preparation, properties and applications of the following in organic synthesis with mechanistic details: Gilman's Reagent (Lithium Dimethyl cuprate), Organocerium Reagents, Organochromium Reagents, Organosilicon Reagents.

1.2 Organo nonmetallic Reagents.

Principle, preparation, properties and applications of the following in organic synthesis with mechanistic details: Lithium Diisopropylamide, Trimethylsilyl iodide, Diazomethane, Polyphosphoric acid, Dicyclohexylcarbodiimide, Lead Tetra-acetate , Borane.

OS-2: Reterosynthetic Analysis-I: 14P

2.1 Disconnection Approach: An introduction to synthons and synthetic equivalents, donar and acceptor synthons, disconnection, steps in planning the synthesis, alternaring polarity disconnection, functional group interconversions, the importance of the order of events in organic synthesis, chemoselectivity, regioselectivity, Umpolung concept.

2.2 The concept of protecting functional groups and synthesis.

Protection of Amino, Hydroxy, Diol, Carbonyl group of aldehydes and ketones, double and triple bonds

OS-3: Reterosynthetic Analysis-II: 14P

3.1 One group C-X and two group C-X disconnection

3.2 One group Carbon-Carbon Disconnections: Alcohols, and Carbonyl compounds, Alkene synthesis, use of acetylene and aliphatic nitro compounds in organic synthesis.

3.3 Two Group carbon-carbon Disconnections: Diels-Alder reaction 1,3-functionalised compounds, α β unsaturated carbonyl compounds, Control of relative stereochemistry, Control of enantioselectivity control in carbonyl condensations, 1-5 disfunctionalised compounds, Michael addition and Robinson annulations.

OS-4: Designing Organic Synthesis: 14P

4.1 Rearrangement in synthesis.

4.2 Use of ketene in Synthesis.

4.3 Aromatic heterocycles five member rings.

4.4 Synthesis of five and six member rings.

4.5 Synthesis of complex molecules: Camphor, reserpine and vitamin D₂.

Books Suggested

1. Designing Organic Synthesis – S. Warren.
2. Some Modern Methods of Organic Synthesis, W. Carrathers.
3. Modern synthetic reactions, H.O. House, W.A. Benjamin
4. Advanced Organic Reactions, Reactions, Mechanisms and Structure, J. March.
5. Principles of Organic Synthesis, R.O.C. Norman and J.M. Coxon, Blackie Academic and Professional
6. Advanced Organic Chemistry Part-B, F. A. Carey and R. J. Sundberg.
7. Organic Reaction and Their mechanisms, P. S. Kalsi.
8. Protective Groups in Organic Synthesis, T.W. Greene and P.G.M. Wuts. II nd Edition, John Wiley and Sons 1991.
9. Organic Synthesis: The Disconnection Approach, Stuart Warren.
10. Organic Chemistry By Nantz.
11. Organic Chemistry By Clayden.

**M. Sc. Second Year, Semester-IV
Paper XXIII, CH-544/2A
Medicinal Chemistry- II**

Credits: 04

Periods: 60

- MC-1: Anti-cancer and Anti-AIDS agents.
MC-2: A: Insulin and Hypoglycemic agents.
MC-3: Antimalarials.
MC-4: Analgesic and Anti-inflammatory drugs:
MC-5: Drugs acting on CNS:
MC-6: Intellectual property right (IPR):

MC-1: Anti-cancer and Anti-AIDS agents. 10P

- A] Anti-cancer Agents (Anti-neoplastic agents):** Introduction, Cancer or tumor, Types of tumor, Terminology: Neoplasma, Sarcoma, Carcinoma, Blastoma, Cancers of blood, Metastases. Mechanism of tumor formation, Treatment of cancer: a) Surgery, b) Photo radiation, c) Radiation therapy, d) Immunology, e) Chemotherapy. Role of alkylating agents and antimetabolites in the treatment of cancer, i) Alkylating agents, Mustard gas, nitrogen mustards (General methods of preparations), Mechloethamine, melphalan (synthesis) and chlorambucil (synthesis), ii) Antimetabolites, Synthesis and structure activity of 6-mercaptopurine, 5-fluorouracil. Brief discussion regarding use of hormones, natural products and antibiotics. Information regarding carcinogenic organic compounds.
- B] Anti-AIDS agents:**
Introduction, structure and life cycle of the AIDS virus, recent development, Taxol and Azedothymidine (AZT) derivatives.

MC-2: A: Insulin and Hypoglycemic agents. 10P

- Introduction, Types of diabetics, Insulin and its preparation, Storage, secretion, and function of insulin, SAR and mechanism action of Sulphonyl urea and Biguanides, Sweetening agents: Saccharin and p-Phenyl urea (Dulcin), (Synthesis of sodium saccharin expected).
- B] Cardiac drugs:**
Introduction, Myocardial cell, Molecular basis of myocardial contraction, cardiovascular diseases, pathophysiology heart failure. i) Cardiotonic (Cardiac glycosides): Structure and activity of glycosides, ii) Antianginal drugs. Types of angina pectoris, Mechanism of action of antianginal drugs. Classification of antianginal drugs, a) Nitrates and nitrites, b) Non-nitrate. SAR of Dipeperidamol, Khellin, Xanthines and Papavarine, iii) Antiarrhythmic drugs: Synthesis and SAR of guanidine, procainamide, iv) β -Adrenergic blocking agents: Synthesis and SAR of propranolol and isoproterenol, v) Calcium channel blockers: Structure activity of 1,4-dihydropyridines, synthesis of Verapamil and Diltiazem, vi) Antihypertensive drug: Primary and secondary hypertension agents like Rauwolfia alkaloids, Synthesis and structure activity of methyl dopa, Clonidine, Hydralazin

MC-3: Antimalarials. 08P

-Introduction, life cycle of plasmodia, chemotherapy of malaria, types of antimalarial drugs. SAR of 8-aminoquinoline derivatives, 4-aminoquinoline derivatives, pyrimidine and biguanide derivatives. Synthesis of pamaquine, primaquine, santoquine, camaquine, and pyrimethamine and choroquine phosphate (expected).

MC-4: A) Analgesic and Anti-inflammatory drugs: 10P

I) Analgesics:

- i) Derivatives of Aniline: Synthesis of antifebrin, exalgin and Eupharin
- ii) Quinoline derivatives: SAR of cinchophen, morphine and related compounds.
- iii) SAR of piperidine, meperidin, methadone, and 6, 7-benzomorphans
- iv) Synthesis of mepiridine, methadone and 6, 7-benzomorphans (expected)

II) Anti-inflammatory drugs:

-Introduction, classification on non-steroidal anti-inflammatory drugs, SAR of methyl salicylate, aspirin, iodomethazone, mefenamic acid, phenyl butazone, oxyphenbutazone, Synthesis of ibuprofen and phenylbutazone.

III) Treatment of Gout:

-Introduction, synthesis and uses of Allopurinol.

B) Antifungal agents.

-Introduction, synthesis of Econazole and Fluconazole.

MC-5: Drugs acting on CNS: 12P

A) Anaesthetics:

- i) General anaesthetics: Synthesis of methohexital, structure activity of divinyl ether, nitrous oxide, Pentothal.
- ii) Local anaesthetics: Introduction, development of local anaesthetics, classification (according to chemical structure), a) Cocaine and its analogues, b) Procaine and related amino benzoic acid, c) Stovain and its analogues, d) Lidocaine and its analogues, e) Synthesis and SAR of cocaine, procaine, lidocaine and stovaine

B) Depressants:

-Introduction

- i) Sedative and hypnotics, SAR of aldehydes, ketones and sulphones
- ii) Anticonvulsant: Introduction, Structure and activity of substituent barbiturates. Synthesis of Phenobarbital sodium (expected), Hydantoins: General synthesis and SAR of hydantoins.

C) Antipsychotic agents (Neuroleptic agents): Selective modifier of CNS (Tranquillizers)

Introduction, Classification

- i) Phenothiazine and thioxanthene derivatives: SAR of promazine, chlorpromazine and related compounds.

Synthesis of chlorpromazine and chlorprothixene (expected)

- ii) Butyrophenones derivatives: Synthesis of haloperidol, spiroperidol.

SAR of butyrophenones derivatives

- iii) Central nervous system stimulants (Antidepressants): Introduction

Tricyclic system with central seven membered ring: Dibenzepine and related compounds, SAR of dibenzepine derivatives

Synthesis of imipramine, amitriptyline, Chlorpromazine and Diazepam.

MC-6: A) Intellectual property right (IPR): 10P

Manual of patent practices and procedure, Introduction, Patentable subject matter, Application for patents, Patent application under PCT, Publication and examination of application.

B) Agents for organ image OR Diagnostic agents.

Introduction, Classification, Radiopague agents (contrast media), Water soluble and Water insoluble contrast media. Synthesis of Metrizamide, Iopanoic acid and Pyropylidone. Diagnostic chemicals: i) Drugs used to test kidney functions, ii) Drugs

used to test liver functions, iii) Agents used to test gastric function, iv) Agents used to test cardiac function, v) Miscellaneous diagnostic chemicals.

C) Drug acting on Gastrointestinal tract (Drug acting on GIT).

Introduction

a) Gastric antacid: i) Treatment of gastric hyperacidity, ii) H₂-receptor antagonists-Synthesis of Ranitidine (Zantac) and Famotidine. b) Ulcerative colitis.

c) Antispasmodics agents (Spasmolytic agents), d) Anthelmintic agents: Introduction, anthelmintic agents, synthesis of mebendazole.

Suggested Books:

1. Medicinal chemistry-William O. Foye
2. T. B. of Organic medicinal and pharmaceutical chemistry-Wilson and Gisvold's (Ed. Robert F. Dorge)
3. An introduction to medicinal chemistry-Graham L. Patrick
4. Principles of medicinal chemistry (Vol. I and II)-S. S. Kadam, K. R. Mahadik and K. G. Bothara (Nirali prakashan)
5. Medicinal chemistry (Vol. I and II)-Burger
6. An introduction to drug design-S. S. Pandeya and J. R. Dimmock (New age international)
7. The organic chemistry of drug design and drug action-R. B. Silverman (Academic Press)
8. Strategies for organic drug synthesis and design-D. Lednicer Wiley
9. Pharmacological basis of therapeutics-Goodman and Gilman's (McGraw Hill)
10. Manual of patent practice and procedure-Patent office, India (2005)

M. Sc. Second Year, Semester-IV
Paper-XXIII, CH-544/2B
Polymer Chemistry – II

Credits: 04

Periods: 60

PC-1: Properties of commercial polymers
PC-2: Polymer Additives
PC-3: Natural polymers
PC-4: Polymer supported reagents in organic chemistry
PC-5: Polymer Degradation and Stabilization

PC-1: Properties of commercial polymers **14P**

Polyethylene, polyvinyl chloride, polyamides, polyesters, phenolic resins, epoxy resins and silicone polymers. Functional polymers – Fire retarding polymers and electrically conducting polymers, Bio-medical polymers – contact lens, dental polymers, artificial heart, kidney, skin and blood cells

PC-2: Polymer Additives **10P**

Role of additives in polymers, Fillers, plasticizers, anti-oxidants and stabilizers, Flame-retardants, colourants.

PC-3: Natural polymers **12P**

Cellulose: Cellulose nitrate, cellulose acetate. viscose rayon, starch, silk, Rubber and modified rubber.

PC-4: Polymer supported reagents in organic chemistry **12P**

Preparation and application of polymer supported catalysts, acids, bases, phase transfer catalysts, transition metal complexes etc. Polymer supported reagents and polymer supported protecting groups including “Solid Phase” peptide synthesis.

PC-5: Polymer Degradation and Stabilization **12P**

Types of degradation – Physical and chemical degradation.

Types of Physical degradation

- | | |
|----------------------------|---------------------------------------|
| a. Thermal degradation | b. Photodegradation and stabilization |
| c. Mechanical degradation. | |

Types of Chemical degradation

- | | |
|--|-----------------------------|
| a. Solvolytic degradation | b. hydrolytical degradation |
| c. Oxidative degradation and stabilization | d. biodegradation. |

Books Suggested:

1. Text book of Polymer science ; F.w.Billmeyer J.Willey
2. Polymer science, V.R.Gowarikar, N.V.Vishwanathan and J.Sreedhar, Wiley Eastern
3. Principles of Polymerization, George Odian III.Ed.
4. Organic Polymer Chemistry, K.J.Saunders
5. Polymer Chemistry, Golding
6. Principles of Polymer Chemistry, Flory
7. Physical Chemistry of Macromolecules, D.D.Deshpande, Vishal Publications,1985
8. Functional monomers and polymers, K.Takemoto, V.Inaki and R.M.Ottanbrite
9. Contemporary polymer chemistry, H.R.alkock and F.W.Lambe, Prentice Hall
10. Physics and Chemistry of polymers, J.M.G.Cowie, Blackie Academic andProfessional

**M. Sc. Second Year
Laboratory Course-V, Paper– XXV, CH-501
Mixture Analysis**

Credits: 04

Periods: 132

Qualitative Analysis (At least 10 Organic Mixtures):

Semi-micro Qualitative Analysis of Ternary Mixtures (Solids; Two Solids and One Liquid, One Solid and Two Liquids) containing single/poly functional compounds by Chemical and Physical Method with Chromatographic Separation (TLC) for purity of all three components and its Expected Theoretical Spectral Data (IR, ^1H NMR & ^{13}C NMR).

M. Sc. Second Year
Laboratory Course-VI, Paper- XXVI, CH-502
Synthesis of Organic Molecules

Credits: 04

Periods: 132

- 1. Multistage Synthesis (At least four)**
 - a) Benzophenone → benzopinacol → benzopinacolone
 - b) Benzoin → benzil → benzilic acid
 - c) Benzaldehyde → chalcone → chalcone epoxide,
 - d) Acetaldehyde → 4-bromoacetaldehyde → 4-bromo-2-chloroacetaldehyde → 2-chloro-4-bromoaniline.
 - e) Cyclohexanone → cyclohexanone oxime → caprolactone
 - f) Anthranilic acid → o-chlorobenzoic acid → N-phenyl Anthranilic acid → acridone
- 2. Synthesis of Drug Molecules (At least Four)**
 - a) Synthesis of anaesthetic drug Benzocaine.
 - b) Synthesis of anticancer drug 6-methyl uracil.
 - c) Synthesis of antibacterial drug sulfanilamide.
 - d) Synthesis of anti-epileptic drug antipyrine.
 - e) Synthesis of anti-convulsant drug Phenytoin.
- 3. Use of ultrasound and microwaves in organic synthesis. (One Each)**
 - a) Ultrasound-assisted one-pot synthesis of 2,4,5-triarylimidazole catalyzed by ceric (IV) ammonium nitrate in aqueous media from benzaldehyde, benzil/benzoin and ammonium acetate. (Chinese Chemical Letter, 20 (3), 283-287, 2009).
 - b) Synthesis of Benzotriazoles by Ultrasound Irradiation from o-phenylenediamine. (Letters in Organic Chemistry, 2007, 4, 43-46).
 - c) The Hantzsch dihydropyridine synthesis from aldehydes, ethyl acetoacetate and urea in microwave irradiation. (Synthetic Letters, 8, 1296-1298, 2001; Synthetic Communications, 31, 425-430, 2001)
 - d) Synthesis of coumarin by Knoevenagel synthesis using salicylaldehyde, ethyl acetate in presence of base in microwave irradiation. (J. Chem. Res. (S), 468-469, 1998).
 - e) Synthesis of dihydropyrimidones from Biginelli Reaction by acid-catalyzed, three-component reaction between an aldehyde, β -ketoester and urea (*Tetrahedron*, **2005**, *61*, 4275-4280).

Note:

1. Synthesis is carried out in molar quantities (Less than 5 gm).
2. Reaction with possible mechanism.
3. Calculate Theoretical and practical % yield.
4. Product conformation by Physical constant and TLC.
5. Give expected spectral data (IR and NMR) of starting material, intermediate and final product.
6. All the prepared organic compounds should be stored as a sample and present at the time of University examination.

M. Sc. Second Year
Laboratory Course-VII, Paper– XXVII, CH-503
Physico-Organic Estimations

Credits: 04

Periods: 132

- A] Estimation of Drugs by Titrimetry: (At least three)**
- a) Assay of Aspirin.
 - b) Assay of Ibuprofen.
 - c) Assay of Analgin.
 - d) Determination of Chloride in Ringer Lactate solution for Injection.
 - e) Determination of Calcium ions in Calcium Gluconate Injection.
- B] Isolation of natural products. (At least three)**
- a) Isolation of caffeine from tea leaves.
 - b) Isolation of piperine from black pepper
 - c) Isolation of β -carotene from carrots
 - d) Isolation of lycopene from tomatoes
 - e) Isolation of limonene from lemon peel
 - f) Isolation of eugenol from cloves
- C] Estimation of Drugs by Instrumental Methods: (At least Four)**
- a) Assay of sulfanilamide by Potentiometry.
 - b) Assay of Riboflavin by Colorimetry.
 - c) Assay of ascorbic acid by Colorimetry.
 - d) Assay of Diazepam by UV-Vis Spectrophotometer.
 - e) Assay of Riboflavin by UV-Vis Spectrophotometer.
 - f) Estimation of carbohydrates, amino acids, proteins by UV-Vis spectrophotometer.
 - g) Determination of Hammett constants and determine its substitution effect.
 - i) Benzoic acid, ii) P-Nitro Benzoic acid, iii) P-Methoxy Benzoic acid, iv) P-Methyl benzoic acid, v) P-Chloro benzoic acid.(Out of two compounds one compound must be benzoic acid and another should be substituted benzoic acid is given to the students)

Note:

1. All required solutions must be prepared by the students.
2. In examination one experiment is on Instrumental and one should be on non-instrumental.

Books Referred:

1. Modern Experimental organic chemistry by Royston M. Robert, John C. Gilbert, Lyuu B. Rodewald & alan S. Wingrove, Saunder International Edition
2. Advanced practical organic chemistry by N.K. Vishnoi
3. Experimental organic chemistry by L. M. Harwood & C. I. Moody, Blackwell Scientific Publications.
4. The systematic identification of organic compounds by R.L. Shriner & D.Y. Curtin
5. Semi-microqualitative organic analysis by N.D. Cheronis, J.B. Entrikin & E.M. Wodnett
6. small scale organic preparation by P.J. Hill
7. Vogel's textbook of practical organic chemistry by ELBS, Longmann.

**M. Sc. Second Year
Laboratory Course-VIII, Paper– XXVIII, CH-504
Project**

Credits: 04 (Project: 75 + Seminar 25)

Periods: 132

Literature Survey, Studies of Reactions, Synthesis, Mechanism, Isolation of Natural Products, Standardization of Reaction Conditions, New Synthetic Methods etc.

Note:

1. External and Internal Examiners will examine this project jointly at the time of Practical examination.
2. The students will have to give at least one seminar in each semester in their subject of specialisation is compulsory.
3. Project work must be carried out only in specialized branch.
4. All synthesized organic compounds should be submitted at the time of University Examination.
5. The project work carried out during the year should be presented in power point presentation in presence of University Examiners.

CHOICE BASED CREDIT SYSTEM (CBCS)
SEMESTER PATTERN
Post Graduate (PG) Programme in Chemistry
(Affiliated Colleges)
w. e. f. Academic year 2015-16
Question paper Model
(For all papers)

Mark: 75

Time: 3 hrs

Q 1. Solve any three out of five. Marks – 15

- (a)
- (b)
- (c)
- (d)
- (e)

Q 2. Attempt any three out of five. Marks – 15

- (a)
- (b)
- (c)
- (d)
- (e)

Q 3. Solve. (A)

OR (A) Marks – 08

(B)

OR (B) Marks – 07

Q 4. Solve. (A)

OR (A) Marks – 08

(B)

OR (B) Marks – 07

Q 5. (A) Select the correct alternative from the following – Marks - 5

(B) Write short notes on any two – Marks - 10

- (a)
- (b)
- (c)

॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

“Dnyanteerth”, Vishnupuri, Nanded - 431606 Maharashtra State (INDIA)

Established on 17th September 1994 – Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



ACADEMIC (1-BOARD OF STUDIES) SECTION

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संलग्नित महाविद्यालयांतील विज्ञान व तंत्रज्ञान विद्याशाखेतील पदव्युत्तर स्तरावरील प्रथम वर्षाचे CBCS Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ०८ जून २०१९ रोजी संपन्न झालेल्या ४४व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.११/४४-२०१९ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील विज्ञान व तंत्रज्ञान विद्याशाखेतील पदव्युत्तर स्तरावरील प्रथम वर्षाचे खालील विषयांचे **C.B.C.S. (Choice Based Credit System) Pattern** नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्यात येत आहेत.

1. Bioinformatics
2. Biotechnology
3. Biochemistry
4. Botany
5. Chemistry
6. Computer Management
7. Computer Science
8. Dairy Science
9. Environmental Science
10. Herbal Medicine
11. Information Technology
12. M.C.A.
13. Microbiology
14. Physics
15. Software Engineering
16. System Administration & Networking
17. Zoology

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड - ४३१ ६०६.

जा.क्र.: शैक्षणिक-१/परिपत्रक/पदव्युत्तर-सीबीसीएस
अभ्यासक्रम/२०१९-२०/४६४

दिनांक : ११.०७.२०१९.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) साहाय्यक कुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) उपकुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.



स्वाक्षरित/—

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग

**SWAMI RAMANAND TEERTH
MARATHWADA UNIVERSITY
NANDED**

**SYLLABUS
of**

**M.Sc. First Year
DAIRY SCIENCE**

**CBCS Semester Pattern
Effective from June 2019**

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

**CHOICE BASED CREDIT SYSTEM (CBCS)
SEMESTER PATTERN**

Faculty of Science

Post Graduate (PG) Programmes

DAIRY SCIENCE – CURRICULUM

w.e.f. Academic year 2019-20
M.Sc. Dairy Science First year curriculum

SEMESTER – I

An Outline

Paper No	Title of Theory paper	Credits (Marks) External (ESE)	Credits (Marks) Internal (CA)	Total credits	Periods
I	Advances in LPM	Credits: 03 Marks: 75	Credits: 01 Marks: 25 2 tests: 15 Assignment: 10	04	60
II*	Market milk Industry	Credits: 03 Marks: 75	Credits: 01 Marks: 25 2 tests: 15 Assignment: 10	04	60
III	Dairy Chemistry – I	Credits: 03 Marks: 75	Credits: 01 Marks: 25 2 tests: 15 Assignment: 10	04	60
IV	Dairy Technology - I	Credits: 03 Marks: 75	Credits: 01 Marks: 25 2 tests: 15 Assignment: 10	04	60
V	Seminar Or **One SWAYAM MOOCs Online Course of 2 Credits (instead of two seminars each of Semester I and Semester II)	-	Credit: 01 Marks: 25	01	-
	Total	Credits: 12 Marks: 300	Credits: 05 Marks: 125	17 Marks: 425	240

ESE: End of Semester Examination

CA: Continuous Assessment

* Elective paper

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

**CHOICE BASED CREDIT SYSTEM (CBCS)
SEMESTER PATTERN**

Faculty of Science

Post Graduate (PG) Programmes

DAIRY SCIENCE – CURRICULUM

w.e.f. Academic year 2019-20

M.Sc. Dairy Science First year curriculum

SEMESTER – II

An Outline

Paper No	Title of Theory paper	Credits (Marks) External (ESE)	Credits (Marks) Internal (CA)	Total credits	Periods
VI	Advances in Animal Nutrition and Breeding	Credits: 03 Marks: 75	Credits: 01 Marks: 25 2 tests: 15 Assignment: 10	04	60
VII	Quality Assurance in Dairy Industry	Credits: 03 Marks: 75	Credits: 01 Marks: 25 2 tests: 15 Assignment: 10	04	60
VIII	Dairy Chemistry – II	Credits: 03 Marks: 75	Credits: 01 Marks: 25 2 tests: 15 Assignment: 10	04	60
IX	Dairy Technology – II	Credits: 03 Marks: 75	Credits: 01 Marks: 25 2 tests: 15 Assignment: 10	04	60
X	Seminar Or **One SWAYAM – MOOCSs Online Course of 2 Credits (instead of two seminars each of Semester I and Semester II)	-	Credit: 01 Marks: 25	01	-
	Total	Credits: 12 Marks: 300	Credits: 05 Marks: 125	17 Marks: 425	240

**If one SWAYAM- MOOCSs Online Course of 2 Credits is opted, then it will be covering both papers V of semester I and paper X of semester II

ESE: End of Semester Examination **CA:** Continuous Assessment

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

CHOICE BASED CREDIT SYSTEM (CBCS)

SEMESTER PATTERN

Faculty of Science

Post Graduate (PG) Programmes

DAIRY SCIENCE – CURRICULUM

w.e.f. Academic year 2019-20

M.Sc. Dairy Science First year curriculum

Laboratory course work (Practical)

Annual Pattern

An Outline

Paper No	Title of Paper	Credits	Marks
LC - 01 P-I + P-VI	Advances in LPM + Advances in Animal Nutrition and Breeding	04	100
LC - 02 P-II + P-VII	Market Milk Industry + Quality Assurance in Dairy Industry	04	100
LC - 03 P-III + P-VIII	Dairy Chemistry I + Dairy Chemistry II	04	100
LC - 04 P-IV + P-IX	Dairy Technology I + Dairy Technology II	04	100

M. Sc First year Dairy Science: Total credits: 50, Marks: 1250

(1 credit = 25 marks)

SYLLABUS C.B.C.S. PATTERN
M.SC. DAIRY SCIENCE- 1ST YEAR
(Semester - I)

**Theory Paper – I Title : Advances in Livestock Production and Management Periods/Week-4
Credits : 04**

Objectives : To provide recent knowledge of dairy farming.
 : To provide knowledge regarding animal management and production.

Unit - I : Perspectives of Dairy Farming in India.

- ^ Livestock production: Recent trends, future prospectus.
 A.H. & D. development during five year plans, role of different agencies in the development of livestock industry.
 Contribution of livestock sector to GDP and national income.
 Socio-economic impact and role in manpower employment.
- ^ Sustainable animal production system.
- ^ Farm stead management.

Unit - II : Livestock production.

- ^ Resources and infrastructure.
- ^ Introduction to livestock products technology.
- ^ Environment synchronization for better productivity.
- ^ Types of livestock farming, dairy farming systems.
- ^ Study of different animal farm enterprises and characteristics of an ideal dairy farm.
- ^ Sustainable livestock production.

Unit - III : Animal management.

- ^ Farm animal behavior and management.
- ^ General management practices for cattle/buffalo for better productivity.
- ^ Requisites for successful dairy farm management.
- ^ Material management and inventory control on a dairy farm.
- ^ Features of mechanized and manual farm management shelter management.
- ^ Milking management, mechanized and manual organic dairy production.
- ^ Economics of calf, heifer and cow raising, breeding bull management.
- ^ Preparation of project report for finance.
- ^ Role of computers in animal production.

Reference Books :

- 1) Text books of animal husbandry by G. C. Banerjee.
- 2) Live-stock management S.K. Ranjhan.
- 3) Animal housing milk hygiene by – WHO
- 4) Feeds and feeding by – F.B. Morrison.
- 5) Modern dairy cattle management by – Davis.
- 6) Bovine production by V. D. Mudgal.
- 7) Dairy cattle science by – Ensminger.
- 8) Farm animal management practices by Jagdish Prasad.

MARKET MILK INDUSTRY

Theory Paper-II

Periods/week-4

Unit – I

Credits : 04

- Introduction to MMI
 - Market milk Industry. Organized, Unorganized marketing system.
 - Study of major aided projects such as NDDB, OF, Technology mission in dairy development and National dairy plans.
 - Milk Production, Utilization and consumption pattern, seasonal and regional variation.
 - Dairy development policy in India.
-

Unit – II

- Straining, filtration, clarification of market milk.
 - Reception and preliminary testing of incoming milk
 - ❖ Methods of milk preservation – methods of cooling and chilling of milk, farm cooling, refrigeration, LP system.
 - Bio-protective factors for raw milk preservation. Bio-Preservation of Milk-bactofugation.
 - Homogenization of Milk.
-

Unit – III

- Processing of Milk-pasteurization of milk principle, methods, LTLT, HTST, in bottle pasteurization, UHT, Uperization, stassanization, vacration.
- Sterilization of milk.
- Manufacturing of special milks-Soya milk, Groundnut milk, irradiated milk, fortified milk.
- Milk distribution systems.
- Problems of return and unsold milk.

DAIRY CHEMISTRY-I

Theory Paper-III

Unit - I : General Milk Chemistry :

Credits : 04

-
- Constituents of milk, Composition, Physical and Chemical Nature of Milk of Cow, Buffalo, Goat and Sheep.
 - Physico-chemical properties of milk
 - Nutritive value of milk
 - Coagulation of Milk with Heat, acid, enzymes and alcohol.
 - Newtonian and Non-Newtonian liquids, stocks law.

Unit - II : Chemistry of Milk proteins :

-
- Nomenclature.
 - Classification.
 - Significance
 - ❖ Chemistry of casein micelle, it's structure, casein composition, fractions, properties and utility.
 - Albumins, globulins and NPN compounds.
 - ❖ Colloidal system – Types, properties.
 - ❖ Milk as a colloidal system and it's stability.

Unit - III : Chemistry of Milk Lipids :

-
- Composition and classification of milk lipids.
 - Significance.
 - Properties.
 - Structure of FG.
 - Chemistry of FGM.
 - Fatty acids and Factors affecting fatty acid composition.
 - Phospholipids and their significance in dairy products.
 - Fat contents.
 - ❖ Rancidity and it's control.

DAIRY TECHNOLOGY - I

Theory Paper-IV

Periods/week-4

Unit – I	Technology of indigenous dairy products	Credits : 04
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- An introduction to indigenous dairy products.
- Heritage of Indian dairy products.
- Classification of indigenous dairy products.
- Study of different indigenous milk products :
Khoa and Khoa based; Channa and Channa based Chakka and Chakka based, Pysam, Padusha, Ghever, Milkcake, Kunda, Rajbhog, Khirmohan.
- Ghee : History, definition, composition, methods of manufacturing, grading, Renovation, quality parameters of ghee, like (P. value, R.M. Value, B.R. Reading, Iodine Value), defects and storage

Unit – II Technology of western dairy products.

- Classification of western dairy products
- Cream-Definition, Composition, methods of cream separation, types of cream, factors affecting cream skimming efficiency and defects in cream
- Butter-History, definition, composition, types, churning theories, methods of manufacturing, overrun, defects and storage.
- Cheese : History, definition, Composition, types, methods of manufacturing. Butter oil, Kefir, Kumiss, Yoghurt.

Unit – III Frozen dairy products

- ❖ Ice-cream – History, development and status of ice-cream industry.
- Definition, Composition methods of manufacturing and nutritive value.
- Types and standards of Ice-cream.
- Role of milk constituents in manufacturing of Ice-cream.
- Study and role of dairy and non-dairy ingredients in Ice-cream.
- Types of freezer
- O.R. in Ice-cream and their control.
- Packaging, Hardening storage and defects.
- Kulfi, Chocoboar, Milk Ices and lollies, Softy ice creams.

(Semester - II)
THEORY PAPER-VI

Title : I Advances in Animal Nutrition and Breeding.

**Periods/Week-4
Credits : 04**

Unit - I : Animal feeds and feeding.

- ^ Animal feed technology : scope and constraints.
- ^ Nutrition of Lactating cows.
- ^ Feedings strategies to enhance animal productivity, New trends in feeding dairy animals- Hydrophonix, Azola etc.
- ^ Nutrition of Dry Cows.
- ^ Nutrition of replacement heifers.
- ^ Nutrition of bulls.
- Calving operations.
- Milking and Housing facilities for dairy cows.
- Feeding and Managing Dairy Cattle.
- Feeding standards for different categories of livestock.

Unit - II : Feed Technology

- ^ Legal standards and quality control in feed industry.
- ^ Feed formulations – feed processes : dry, wet processes, feed mixing. Roughage processing methods. Effects of feed and fodder processing on digestibility.
- ^ Biotechnological approaches in manipulation of rumen ecosystem.
- ^ Linear programming, formulation of least cost ration.

Unit - III : Animal breeding.

- ^ Breeding strategies and programs for cattle & buffaloes.
- ^ Study of bio-techniques in animal reproduction.
- ^ Semen collection and A.I.
- ^ Synchronization of oestrus, super ovulation, ETT.
- ^ Synchronization of lactation and induced lactation.
- ^ Cloning.
- ^ Improvement of breeding efficiency.
- ^ Heredity and environment interaction.
- ^ Sustainable animal breeding.

Reference Book :

- ^ Text book of animal husbandry by – G.C. Banerjee.
- ^ Animal nutrition by - S.K. Ranjhan
- ^ Livestock management by - N.R.S. Sastry, Thomas and Singh.

- ^ Feeds and feeding by – F.B. Morrison.
- ^ Modern dairy cattle management by – Davis.
- ^ Dairy cattle feeding and management by – William N. Etages and Paul M. Revis.
- ^ Livestock feeds and feeding Church O and B books Oregon (USA)

THEORY PAPER-VII

Title : Quality assurance in dairy industry.

Credits : 04

Four periods per week

Objectives :

- ^ To impart the knowledge regarding importance of quality of milk.
- ^ To inculcate the knowledge regarding recent trends in quality management and quality assurance.
- ^ Principle and technical aspects of quality control for various dairy equipments.
- ^ To study various test procedures related to maintenance of quality of milk.
- ^ To make awareness about statutory regulations.

Topics

Unit - I

- ^ Introduction to concept of quality.
- ^ History, definition and importance of quality assurance (QA) in dairy industry.
- ^ Milk sampling-procedures for chemical and microbiological analysis.

Unit - II

- ^ Preparation of laboratory for quality control in dairy industry.
- ^ Precautions while working in the laboratory.
- ^ Methods of analysis of milk and milk products.
- ^ Study of equipments-principles, operation and maintenance of various equipments.
- ^ Quality requirements for raw milk and quality influences.
- ^ Quality evolution of raw milk.
- ^ Export potential in the global context.
- ^ Quality assurance and hygiene in dairy plants.

Unit - III

- ^ Quality and safety management systems in dairy industry.
- ^ Concept of total quality management and quality assurance.
- ^ Statutory regulations –
- ^ Dairy processing and quality assurance.
- ^ Quality assurance strategies.
- ^ PFA specifications for milk and milk products.
- ^ BIS standards for milk and milk products.
- ^ AGMARK standards for milk and milk products.
- ^ HACCP with advanced version.
- ^ ISO-14000 (ISO 9000-2000)
- ^ USFDA regulations.
- ^ IDF regulations.

THEORY PAPER-VIII DAIRY CHEMISTRY- II

Periods/week-4
Credits : 04

Objectives of the Course :

- ^ To study the chemistry of milk carbohydrates and minor milk constituents.
- ^ To study the significance of lactose in various milk products.
- ^ To Study the chemical nature of minor milk constituents and their significance in product preparation.

Course content:

Unit – I Chemistry of milk carbohydrates:

- ^ Classification of carbohydrates
- ^ Chemical nature of lactose
- ^ Properties of lactose
- ^ Significance of lactose in fermented milk and infant food.
- ^ Lactose intolerance.

Unit – II Chemistry of Minor Milk Constituents:

- ^ Minerals in milk-major, minor and trace minerals in milk.
- ^ Salt balance and heat stability-theory, factors affecting and control measures.
- ^ Milk enzymes-classification, significance.
- ^ Vitamins – Definition, classification, chemical nature, functions, deficiency symptoms and RDA.

Unit – III :

- ^ Flavours in milk and milk products.
- ^ Chemistry of important by products : whey, lactose, casein.
- ^ Milk and metal relationship.
- ^ Qualities of dairy metal.

Semester-II
DAIRY TECHNOLOGY - II

Paper-IX (Theory)

Periods/week-4

Unit – I	Condensed and evaporated milks :	Credits : 04
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- History, status and scope
- Physico chemical changes taking place during manufacturing of condensed milk.
- Heat stability of milk and condensed milk.
- Methods of manufacturing of condensed Milk, sweetened condensed milk and evaporated milk.
- Seeding crystallization and stability of evaporated milk.
- Defects in condensed milk, their causes and precaution.
- Packaging and storage.

Unit – II	Dried milk products :	
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- History, status and scope.
- Types, composition, PFA/BIS and international standards.
- Manufacturing of SMP and WMP
- UF/RO techniques.
- Physico-chemical properties of dried milk.
- Packaging, marketing and defects.

Unit – III	Study of dairy byproducts :	
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- History, status and scope.
- ❖ Casein – Types, methods of manufacturing and uses.
- ❖ Lactose – Methods of manufacturing and Uses.
- ❖ Whey – Composition and importance, whey beverages, whey concentrates and whey powder.
- ❖ Butter milk – composition and importance and uses.

Laboratory Course Work
LC – 01 (Based on theory paper – I and VI)
Credits : 04
(Annual Pattern)

1. Conventional and loose housing synchronized with environment.
2. Maintenance of sanitary and hygienic conditions at farms.
3. Mechanical disposal of waste and waste recycling.
4. Preparation of heat expectancy chart.
5. Ultra structure of mammary gland.
6. Machine milking-principle, operation, care and maintenance.
7. Clean milk production.
8. Detection and control of mastitis.
9. Collection of feeds and fodders, sampling techniques,
10. Feed processing.
11. Preparation of feed mixtures- study of feed processing mills.
12. Computation of ration and types of rations.
13. Use of agro- industrial byproducts in feeds: UROMOL.
14. Automation in animal feeding
15. Detection of aflatoxins in animal feeds.
16. Storage of feeds and fodders
17. Semen collection and evolution.
18. Pregnancy diagnosis.
19. Measuring breeding efficiency.
20. Cleaning, disinfection, cattle dips, foot, dips on farms.
21. Study of feedings and breeding records.
 - Visit to established dairy
 - Visit to agriculture collage.
 - Visit to A.I. centre.
 - Visit to feed factory.
 - Visit to ETT laboratory.

Laboratory Course Work

LC – 02 (Practical based on theory paper II & VII) Credits : 04

1. Layout for milk collection centre.
2. Receiving of milk and platform tests.
3. Sampling techniques.
4. Study of straining, filtration and clarification.
5. Chilling of milk.
6. Working of plate pasteurizer synchronized to homogenizer.
7. Study of milk separator.
8. Q.C. tests at collection centre.
9. Tests for detection of adulterants and preservatives.
10. Fluid milk packaging.
11. Study of CIP.
12. Study of can washing and crate washers.
13. Preparation of toned, Double toned and reconstituted milk.
14. Visit to milk collection centre.
15. Visit to village dairy co- operative society.
16. Prerequisites of quality control section.
17. Study of different instruments / equipments used QAL, like- Autoclave hot air oven, Incubator, Colorimeter, Centrifuges, Colony counter, TS apparatus, Analytical balances, pH meters, Moisture analyzer, etc.
Operated instruments like Milko- testers, Scanners etc.
18. Instrumental methods of analysis of milk and milk products
19. Visit to the dairy plants with ISO certification.

Laboratory Course Work
LC – 03 (Based on theory papers III & VIII)
Credits : 04

1. Chemical tests of milk - Cob, alcohol test, pH, Acidity, sp. gravity
2. Determination of boiling point and freezing point of milks.
3. Determination of T.S. and SNF by lactometer and gravity metric method.
4. Determination of fat in milk and from selected dairy products.
5. Determination of viscosity.
6. Determination of electrical conductivity.
7. Determination of refractive index.
8. Determination of milk protein by Kjeldhal method.
9. Determination of casein by PAGE.
10. Preparation of acid casein.
11. Detection of adulterants and preservatives in milk.
12. Manufacture of lactose.
13. Manufacture of whey proteins by U.F.
14. Chemical analysis of whey.
15. Chemical analysis of butter milk.
16. Preparation of formula foods.
17. Study of dairy metals.
18. Visit to M.F. unit.
19. Visit to beverage industry.

Laboratory Course Work
LC – 04 (Based on IV & IX)
Credits : 04

1. Quality of milk for milk product preparation.
2. Khoa making - Manual and mechanized.
3. Preparation of different sweet meats from Khoa.
4. Preparation of Dahi, Chakka, Shrikhand – Lassi.
5. Preparation of Rabri, Basundi, Khir, Pysam, Rasmalai , Yoghurt.
6. Preparation of Deshi butter.
7. Preparation of Channa, Paneer, Kalakand, Chhana podo, Rosogolla.
8. Economics of indigenous milk product preparation.
9. Quality parameters for indigenous milk products – sensory evaluation.
10. Packaging materials and packaging of indigenous milk products.
11. Technological innovations for traditional dairy products.
12. Preparation of special milks- toned, double toned milk, reconstituted and recombined milk.
13. Study of cream separator and types of cream - grading of cream.
14. Butter preparation- Creamery method, OR in butter.
15. Butter analysis for fat and moisture.
16. Ghee making- methods - quality- adulterants- detection.
17. Preparation of dairy by products- skim milk- casein, butter milk, Lassi, Limsi, use of Ghee residues.
18. Whey, whey beverages, WPC and WPI.
19. Determination of TS and moisture % in milk powders.
20. Quality determination of milk powder by solubility index.
21. Ice- cream making- calculation of mix, preparation of mix ageing, freezing- packaging of ice cream OR in ice - cream.
22. Preparation of casein.
23. Visits- Halwai shop.
 - Khoa making units.
 - Ice- cream plant, Kulfi unit.
 - Condensed milk plant.
 - Milk parlour.

Reference Books :

1. Outlines of Dairy Technology - S.K. De
2. Milk & Milk Products - Eckless, Combs & Macacy
3. Modern Dairy Products - Lampert
4. Dairy Chemistry - M.M. Rai.
5. Principals of Dairy Chemistry - Jeneess & Patton
6. A Text book of Dairy Chemistry - N.C. Ganguly
7. Fundamentals of Dairy Chemistry - Web & Jonson
8. Dairy Chemistry - Fox
9. Dairy Processing - James Warner
10. Indigenous milk products - ICAR pub
11. Hand book of Dairy Science - K.C. Mahanta
12. Dictionary of Dairying - Davis & Leonard Hill
13. Engineering for Food & Dairy Processing - E.M. Farrell
14. Dairy Plant-Management & Engineering - Tufail Ahemad
15. Text book of Practical Dairy Chemistry - N.K. Roy & D.C. Sen
16. Milk Testing - J.G. Davis
17. Dairy Microbiology - K.C. Mahanta
18. Dairy Bacteriology - Hammer
19. Fundamentals of Dairy Microbiology - J.B. Prajapati
20. Standard Methods for Examination of Products - Gary H. Richardson Dairy
21. Milk and Milk Products Technology -Mohd.Raziuddin and Ashok S.Hembade
22. Market Milk Industry - C.L. Rhodhouse & J.L. Henderson
23. Comprehensive Dairy Microbiology - Yadav, Batish and Grover
24. A Text Book of Animal Husbandry - G.C.Banerjee
25. The Fluid Milk Industry - Henderson
26. ISI Specifications - BIS Publication
27. Technology of Dairy plant operations - K. P. S. Sangwan.
28. Technology of milk processing - C.P. Anantkrishnan, A. khan and
29. Milk and It's properties - S.M. Srivastava
30. Chemical & Microbiological Analysis of & milk projects. - Ramakant Sharma. milk

Dr. A. S. Hembade
Chairman (BOS in Dairy Science)

DAIRY SCIENCE

List of Refereed, Peer reviewed and Indexed Journals with ISSN No

01	Journal of Food Science of Technology	:	ISSN 0022-115
02	Asian Journal of Dairy & Food Research	:	ISSN 09760563
03	The biosphere	:	ISSN 22517677
04	Journal of Animal production Advances	:	ISSN 2251-7219
05	Journal of Animal Science Advance	:	ISSN 1811-9751
06	International Journal of Dairy Science	:	ISSN 1557-4571
07	American Journal of food Technology	:	ISSN 2141-2448
08	International Journal of Livestock production	:	ISSN 1996-0794
09	African Journal of food science	:	ISSN 09715436
10	Indian Journal of Dairy and Bioscience	:	ISSN 22517685
11	Journal of Veterinary Advances	:	ISSN 09788988
12	Veterinary world (International Journal)	:	ISSN 0972-8988
13	Journal of Dairy Science	:	ISSN 0022-0302
14	Karnataka Journal of Agricultural Sciences	:	ISSN 13006045
15	American, European Journal Agricultural & Environmental Science	:	ISSN 18186769
16	New Zealand Journal of Dairy Science & Technology	:	ISSN 00288268
17	International Journal of Dairy Technology	:	ISSN 14710307
18	Journal of food science	:	ISSN 17503841
19	Pakistan Journal of Nutrition.	:	ISSN 16805194
20	International Journal of Food science and Technology	:	ISSN 13652621
21	Food science and Biotechnology	:	ISSN 20826456

22	Food Science and Nutrition	:	ISSN 248-7177
23	Emerald Nutrition and food science	:	ISSN 00346659
24	Dairy Science and Technology	:	ISSN 19585586
25	Italian journal of Animal Science	:	ISSN 15944077
26	Japanese journal and veterinary research	:	ISSN 00471917
27	Indian veterinary Journal	:	ISSN 0019-64799
28	Indian Journal of Animal Nutrition	:	ISSN 0970-3209
29	Patron	:	ISSN 09762310
30	International Journal of Agriculture innovations and Research	:	ISSN 2319-1473
31	Indian Dairyman	:	ISSN 0019-4603
32	Indian Journal of Dairy Science	:	ISSN 0019-5146
33	Animal Nutrition and Feed Technology	:	ISSN 0972-2963
34	Asian Journal of Microbiology, Biotechnology	:	ISSN 0972-3005
35	National Journal of life Sciences	:	ISSN 0972-995X
36	Asian Academic Research Journal of multidisciplinary	:	ISSN 2319-2801
37	periodic Research	:	ISSN 2231-0045
38	Journal of International Research for multidisciplinary (Impact Factor : 1.393)	:	ISSN 2320-5083
39	Golden Research Thoughts (Impact Factor : 1.2018)	:	ISSN 2231-5063
40	Indian Streams research Journal (Impact factor : 0.2105 (GISI)	:	ISSN 2230-7850
41	Asian Resonance	:	ISSN 0976-8602
42	Review of Research Journal (Impact Fact : 1.6672 (UIF)	:	ISSN 2249-894X

**SWAMI RAMANAND TEERTH
MARATHWADA UNIVERSITY
NANDED**

**SYLLABUS
of**

**M.Sc. Second Year
DAIRY SCIENCE**

**Semester Pattern
(CBCS Pattern)
Effective from June 2015**

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
CHOICE BASED CREDIT SYSTEM (CBCS)

SEMESTER PATTERN

Faculty of Science

Post Graduate (PG) Programmes

DAIRY SCIENCE – CURRICULUM

w.e.f. Academic year 2014-15

M.Sc. Dairy Science Second Year curriculum

SEMESTER – III

An outline :

Paper No.	Name of Paper & No.	External (ESE)	Internal (CA)	Total
XI	Dairy Engineering-I	Credit – 3 75 Marks	Credit : 1 (25 Marks) Test 15 marks + Assignments 10 Marks	Credit :4 100 Marks
XII	Dairy Microbiology-I	Credit – 3 75 Marks	Credit : 1 (25 Marks) Test 15 marks + Assignments 10 Marks	Credit :4 100 Marks
XIII	Dairy Engineering-II	Credit – 3 75 Marks	Credit : 1 (25 Marks) Test 15 marks + Assignments 10 Marks	Credit :4 100 Marks
XII	Dairy Business Management and Co-operation	Credit – 3 75 Marks	Credit : 1 (25 Marks) Test 15 marks + Assignments 10 Marks	Credit :4 100 Marks
XI	Seminar	Credit – 1 25 Marks		Credit : 1
			Total For Semester – III	Credit : 17
SEMESTER IV				
XVI	Packaging and quality Assurance	Credit – 3 75 Marks	Credit : 1 (25 Marks) Test 15 marks + Assignments 10 Marks	Credit :4 100 Marks
XVII	Dairy Microbiology II	Credit – 3 75 Marks	Credit : 1 (25 Marks) Test 15 marks + Assignments 10 Marks	Credit :4 100 Marks
XVIII	Dairy plant management	Credit – 3 75 Marks	Credit : 1 (25 Marks) Test 15 marks + Assignments 10 Marks	Credit :4 100 Marks
XIX	Heritase Dairy Products of Indian – Elective	Credit – 3 75 Marks	Credit : 1 (25 Marks) Test 15 marks + Assignments 10 Marks	Credit :4 100 Marks
XX	Seminar	Credit : 1 25 Marks		Credit : 1
			Total For Semester – IV	Credit : 17
LAB COURSEWORK ANNUAL PRACTICAL				
LC-05	Lab Course work – 05 Based on XI + XVI	Credit – 3 75 Marks	Credit : 1 (25 Marks)	Credit :4 100 Marks
LC-06	Lab Course work – 06 Based on XII + XVII	Credit – 3 75 Marks	Credit : 1 (25 Marks)	Credit :4 100 Marks
LC-07	Lab Course work – 07 Based on XIII + XVIII	Credit – 3 75 Marks	Credit : 1 (25 Marks)	Credit :4 100 Marks
LC-08	Lab Course work – 08 Dissertation + in plant training of 6 week duration course work	Credit – 3 75 Marks	Credit : 1 (25 Marks)	Credit :4 100 Marks
Total For Lab Course Work (Annual)				Credit : 16
Total for M.Sc. II year : Sem. III + Sem. IV + Lab course work (Annual)				Credit : 50
Total for M.Sc. I year + II year.				Credit :100

Semester - III
Dairy Science
Theory Paper - XI
Dairy Engineering – I

Total Period : 45

Period per week – 04

Credits : 04

Objectives :

- ❖ To inculcate the knowledge regarding various engineering materials used in dairy industry.
- ❖ Installation and operations of various equipments and machines used in dairy plant.
- ❖ Unit operations.
- ❖ Various Lay-out procedures.

UNIT – I :

12

- ❖ **Dairy Engineering Materials, Lay-out and fluid flow.**
- ❖ Introduction to Dairy Engineering.
- ❖ Engineering properties of milk & milk products.
- ❖ Various materials for dairy plant, Machineries and equipments.
- ❖ Design and Lay-out of dairy plant (Chilling Centre, Mini dairy plant, Composite milk processing plant)

UNIT – II :

11

- ❖ **Utility / Services for dairy plant.**
- ❖ Water supply, Quality of water, water softening treatment for boiler use. Boiler safety devices.
- ❖ Study of boilers, Type, installation, working operation.
- ❖ Boiler fuels
- ❖ Steam pipelines – Installation, care and maintenance Boiler safety regulation.

UNIT – III :

11

- ❖ **Heat and heat transfer.**
- ❖ Heat transfer principle and laws.
- ❖ Types of heat exchangers, their installation and working
- ❖ Microwave heating of milk and milk products.
- ❖ Evaporators and dryers.
- ❖ Humidifiers.

Pumps and fluid flow.

- ❖ Study of pumps used in dairy industry.
- ❖ Fluid flows.
- ❖ Valves and pipe fittings.
- ❖ Electricity and power supply
- ❖ Types of motors and starters.

Reference Books.

- A text book of Dairy Engineering – C. N. Hall
- Engineering for Dairy and Food products – E.M. Farral
- Dairy plant Engineering and management – Tufail Ahmad.
- Food engineering and Dairy Technology – Ing. H.C. Kessler.
- Modern Dairy Technology and engineering – Harpar and Hall
- UHT Processing of milk and milk products.
- Heat transfer – C. P. Gupta and Rajendra Prasad.
- Principles of unit operations – Alon S. Fouretal
- Fluid mechanics – Yuan
- Process equipment Design – Hasse and Ruston
- Refrigeration, Air Conditioning and environmental pollution control – Kadabmi
- Engineering properties of foods – M.A. Rao and S.S.H. Razwi
- Dairy engineering technology and Engg. Fo dairy plant operations – C.P. Autkrishna and simha N.N.

Semester - III
Dairy Science
Paper - XII
Dairy Microbiology – I

Total Period : 45

Period per week – 04

Credits : 04

Objectives :

- ❖ To provide advanced knowledge of various aspects of dairy microbiology
- ❖ Study of advances in dairy microbiology
- ❖ To know recent techniques in microbiology
- ❖ Various Lay-out procedures.
- ❖ To study proposition of starter cultures.

Unit – I :

12

- ❖ **Historical and introductory Dairy Microbiology.**
 - Introduction to cell biology
 - Structural difference in Eukaryotic and prokaryotic cells.
 - Historical background of microbiology
 - Classification of various groups of microorganism associated with dairy industry.

Unit – II :

08

- ❖ **Fermentation.**
 - Desirable and undesirable formulation in milk of dairy products.
 - Causes, prevention and biochemical changes associated with fermentation.

Unit – III :

- ❖ **Starter Culture**
 - Importance of starter culture in dairy industry.
 - Propagation and preservation of dairy starters.
 - Recent developments in dairy starter industry, like starter concentration, starter distillates and direct-vat-set (DVS) cultures.
 - Study of yoghurt, kefir and Kumiss.

❖ Microbiology of milk

- Sources of milk contamination and their control.
- Microfora of raw milk
- Microflora of market milk.
- Microbiology of pasteurized of sterilized milk
- Diseases transited through milk and milk products.
- Milk products and human health.

Reference Books :

- ❖ Dairy microbiology I & II – R. K. Robinson
- ❖ Compressive dairy microbiology – Yadav, Batish and Grover.
- ❖ Fundamentals of Dairy microbiology : J. B. Prajapati
- ❖ Testing milk of milk product : Artheton and Newlender

Semester - III
Dairy Science
Paper - XIII
Dairy Engineering – II

Total Period : 45

Period per week – 04

Credits : 04

Objectives :

- ❖ To know the installation and working principles of various equipments and machineries.
- ❖ To know the conveying methods used in dairy plant.

Unit – I :

12

Equipments and machineries :

- ❖ Components, installation, working and maintenance of chillers.
- ❖ Filters, Types, installation, working and maintenance.
- ❖ Milk separators and clarifiers.
- ❖ Pasturizer, Vacreator.
- ❖ Milk homogenizer-types, working, cave and maintenance.

Unit – II :

10

Equipments and Milk storage:

- ❖ Butter churners – types, Installation, Working and maintenance.
- ❖ Ice-cream freezers – types and working.
- ❖ Ghee vat
- ❖ Cheese vat
- ❖ Milk storage tanks and milk silo's.

Unit – III :

10

Conveying systems:

- ❖ Definition and objectives.
- ❖ Types of conveyors used in dairy industry
- ❖ Maintenance of conveying system.
- ❖ Calculations of conveying load.

Washers :

- ❖ Can washers – Types, installation, working and care and maintenance.
- ❖ Filters, Types, installation, working and maintenance.
- ❖ Bottle washers – Types, installation, working and maintenance.
- ❖ Create washers – Types, installation, working and maintenance.
- ❖ Sonic vibrators.
- ❖ CIP system.

Reference Books.

- A text book of Dairy Engineering – C. N. Hall
- Engineering for Dairy and Food products – E.M. Farral
- Dairy plant Engineering and management – Tufail Ahmad.
- Food engineering and Dairy Technology – Ing. H.C. Kessler.
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- UHT Processing of milk and milk products.
- Heat transfer – C. P. Gupta and Rajendra Prasad.
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Semester – III
Dairy Science
Theory Paper - XIV
Dairy Business Management and Co-operation

Total Period : 45

Period per week – 04

Credits : 04

Objectives :

- i) To study the challenges and opportunities of dairy entrepreneurs in India.
- ii) To know the various principle of cooperation and cooperative movement for dairy industry.
- iii) To study the demand and supply of milk and milk product.
- iv) To study financial management and cost accounting with respect to dairy industry.
- v) To study the marketing management of milk and milk products and pricing policies of milk procurement.

UNIT – I :

11

Business Administration and pricing policy :

- ❖ Resource planning and pricing policies of milk procurement.
 - ❖ Sources of finance : study of financing agencies for dairying.
 - ❖ Demand Analysis : Law of demand, Determinants of demand, types of demand, elasticity of demand, forecasting, etc. and law of supply.
-

UNIT – II :

11

Finance Management :

- ❖ Financial management and cost Accounting : profit and loss statement, balance sheet, cash flow capital manage.
- ❖ Statements, BEP, inventory management, different cost concept, etc.

Marketing Management :

- ❖ Definition, scope, function and importance of marketing management.
- ❖ Market planning, Market segmentations, Marketing mix-4 Ps, Marketing research, etc. with respect to milk and milk products.
- ❖ Types o marketing strategies and different channels mostly used for milk procurement.
- ❖ Product recall strategy and market complaints redressed system.
- ❖ Advertisement and marketing channels in organized and unorganized sectors.
- ❖ Logistic management of milk and milk products.
- ❖ Recent trend in marketing and utilization of dairy products.

Co-operation :

- ❖ Definition and principle of cooperation – History and prospects.
- ❖ Structure of Dairy Cooperatives : Village level cooperatives, Taluka/District/Milk unions and state level marketing federation and their organization set up.
- ❖ Rights and duties of the chairmen, secretary and general body of the cooperative society.

Semester – IV
Packaging and Quality Assurance
Paper –XVI

Total Period : 45

Periods Per week : 04

Credits : 04

Objectives :

- ❖ To know the utilities of packaging necessary for dairy industry.
- ❖ To study the various packaging materials for milk and milk products.
- ❖ To know the trends in packaging materials in dairy industry.
- ❖ To know the importance of quality assurance in dairy sector.

Unit – I :

10

- ❖ Objectives of packaging.
- ❖ Packaging material used in dairy industry.
- ❖ Packaging of milk and it's types. Bottle capping and packaging, Tetra packs, cans, cones etc.
- ❖ Packaging of milk products.

Unit – II :

10

- ❖ Study of form, fill and seal machines (Polypacks)
- ❖ Automation in packing of milk
- ❖ Automation in packing of different milk products.
- ❖ Recent trends in packaging materials used in dairy industry.

Unit – III :

11

- ❖ Enrichment of shelf life of indigenous dairy products by the application of modern processing and packaging techniques.
- ❖ Sensory evaluation of Indian dairy products.
- ❖ Nutritional significance of unflavoured added dairy products.
- ❖ Reuse of packages, recycling of packaging materials and disposal of used packages.

- ❖ Strategies for globalization of Indian dairy products.
- ❖ 3-A sanitary standards for the hygienic packaging of milk and milk products.
- ❖ HACCP for dairy industry and International food laws.
- ❖ ISO standards and quality of dairy products.
- ❖ International food safety and Quality system certification.
- ❖ Prevention of food adulteration act and rules.
- ❖ FSSAI (Food safety standards Authority India) Regulation in dairy industry.
- ❖ Crime and punishment for adulteration in milk and milk products.

List of Books :

- ❖ Quality Assurance monograph SMC College of Dairy Science of Anand.
- ❖ ISI bulletin for analysis of milk and milk products – BIS publication.
- ❖ PFA and MMPO Handbook.
- ❖ Testing of milk and milk products – Atherton and Newlendor.
- ❖ Text book Dairy Chemistry – B. R. Ling.
- ❖ Food safety and standards Act 2006. Rules and Regulation – 2011 – P.M. Kulkarni
- ❖ Packaging Bulletin
- ❖ Handbook of pollution control management – Hurburt F. Bund.

Semester – IV
Dairy Microbiology - II
Paper –XVII

Total Period : 45

Periods Per week : 04

Credits : 04

Objectives :

- ❖ To know the microbiology of Indigenous milk products, western dairy products and by products
- ❖ To know microbiological standards for milk and milk products.

Unit – I : **11**

- ❖ **Microbiology of Indigenous dairy products.**
- ❖ Microbiology of khoa, Rabri, Basundi, Channa, Paneer, Kulfi etc.
- ❖ Microbiology of sweetmeats : Pedha, Burfi, Gulabjamun.

Unit – II : **12**

- ❖ **Microbiology of western Dairy products.**
- ❖ Microbiology of cream, Butter.
- ❖ Microbiology of dialed milks : WMP, SMP and formula foods, conversed milk.
- ❖ Microbiology of cheese.
- ❖ Microbiology of Ice-cream of other frozen products.

Unit – III : **11**

- ❖ **Microbiology of Dairy By products.**
- ❖ Microbiology of whey.
- ❖ Microbiology butter milk
- ❖ Microbiology of casein
- ❖ Microbiology of Ghee residue.

Unit – IV : **11**

- ❖ **Microbiological standards**
- ❖ Microbiological standards for milk and milk products. BIS standards.
- ❖ USDA / FDA standards, UK standards, USPHS, APHA Standards.
- ❖ ICMFS, IDF / ISO / AOAC standards.

Semester – IV
Dairy Science
Theory Paper - XVIII
Dairy Plant Management

Total Period : 45

Period per week – 04

Credits : 04

Objectives :

- i) To study the principles & functions of Dairy Plant Management.
- ii) To know the various ways and means of plant maintenance.
- iii) To know the recent concept in the production management and food hygiene.
- iv) To study the dairy plant design and types of dairy plant layout.
- v) To study the process of sanitations and dairy waste disposal.

UNIT – I :

12

General Dairy Management :

- ❖ Management and Administration.
- ❖ Personal management, manpower planning, recruitment, training, transfer, promotion policies, job specifications, job evaluation, job enhancement, job enrichment, MBO.
- ❖ Entrepreneurship Development.
- ❖ Entrepreneurial opportunities in India Dairying.
- ❖ Industrial legislation in India, particularly in dairy industry and statutory requirement for dairy industry-FSSAI, ISO-9001, ISO-22000, ISO-14000, ISO-50000, HACCP, GMP, GHP, CAC, etc.

UNIT – II :

11

Plant Design :

- ❖ Types of plant layout, location of plant and selection of sites.
- ❖ Maintenance of dairy plant flooring and drainage lines, water supply, boiler house, service lines for electricity, water, steam and refrigeration.
- ❖ Dairy Equipment maintenance, plant maintenance and efficiency factors.
- ❖ Food hygiene, personal hygiene, plant hygiene, etc.

Plant Management :

- ❖ Principles and functions of production management, product planning and control.
- ❖ Work study and measurement motion and time study, production efficiency and factors losses, personnel management.
- ❖ Material losses of dairy plant and hazardous processes.
- ❖ Uses of common lubricants (Food grade).

Cleaning, Sanitation and Dairy Waste Disposal :

- ❖ Different types of detergent and sanitizers required for cleaning in dairy industries.
- ❖ Cleaning in place and its types.
- ❖ Present trends in cleaning and sanitation in dairy plants i.e. Bio Detergents, ultrasonic technique, etc.
- ❖ Types of Dairy waste from different sections, waste treatment: primary and secondary treatment.
- ❖ RO-Technique for waste disposal, wastes recycling, etc.

Semester -IV
Dairy Science
Theory Paper - XIX
Heritage Dairy Products of India

Total Period : 45

Period per week – 04

Credits : 04

Objectives :

- i) To get acquainted to regional Indian milk products.
- ii) To study their method of production, and nutritive value.

UNIT – I :

12

- ❖ **Eastern regional milk products :** Pantooa, Rabari, Khir-mohan, Chana Murki, Chamcham, Channapoda, Bandal Cheese, Mistidoi, Rajbhog, Kamalbhog.

UNIT – II :

11

- ❖ **Western regional milk products :** Lal-mohan, Ghewar, Surtipaneer, Ujani Basundi, Gangakher Kalam, Kunthalgiri Peda, Khoajilebi.

UNIT – III :

10

- ❖ **Southern regional milk products :** Dharwad Peda, Thirttural, Kunda Phirmi, Paysum, Jilli, Mohandas.

UNIT – IV :

12

- ❖ **Northern regional milk products :** Kalajam, Kurchan, Bal-mithai, Lauki Kheer, Sohan Halwa, Lauki Ka Halwa, Padusha, Lucknowpeda, Agrapetha, Milk Cake.

Reference Book :

- i) Technology of Indian milk products – P.R. Aneja, B.N. Mathur, R.C. Chandan.
- ii) Handbook of milk processing Dairy products and packaging technology – EiRi Board..
- iii) Milk and milk products Technology – M. Raziuddin and Ashok Hembade.
- iv) Milk processing and Dairy products Industries – EiRi Board of Consultants and engineer.
- v) Technology advances in Indigenous milk products – Dr. J. David

M.Sc. II Year.
(Practical based on paper XI & XVI)
Laboratory Course Work - 05

One Practical of 3 Periods per week

Credits : 04

Practical's Engineering Materials

- ❖ Workshop study
- ❖ Layout for different types of dairy plants
- ❖ Study of flow patterns
- ❖ Study of Pumps (Reciprocating, non reciprocating, gear, pump, instant pumps) with their components, installation and working.
- ❖ Study of Valves
- ❖ Study of pipe fittings
- ❖ Study of compression, refrigeration system
- ❖ Study of refrigerant
- ❖ Study of Boiler, Types, Components, and working study of Boiler fuels
- ❖ Water softening treatment for boiler use
- ❖ Study of evaporators
- ❖ Study of Driers
- ❖ Study of compressors and humidifiers
- ❖ Study of process equipments: Chillers, Filters and clarifiers, Separators, Pasteurizers, Homogenizer
- ❖ Butter churners and accessories
- ❖ Storage tanks and milk silos,
- ❖ Packaging materials
- ❖ Bottle, Packaging, Capping, Polypack.
- ❖ Study of can washers
- ❖ Study of bottle and crate washers
- ❖ Study of CIP system
- ❖ Study of compression refrigeration and air conditioning
- ❖ Visits to processing plant: Engineering workshop, Boiler unit, Refrigeration unit etc.

M.Sc. II Year
Dairy Science
(Based on theory paper- XII & XVII)
Laboratory Course - 06

1 Practical per Week :

Credit : 04

Practical's :

- ❖ Preparation of reagents.
- ❖ Caliberation of dairy glass wares.
- ❖ Techniques adopted to sterilize glasswares and media ingredients.
- ❖ Various staining techniques used to study. Morphological characteristics of microorganisms.
- ❖ Study of general and selective media
- ❖ Microbiological analysis of milk & milk products by qualitative methods (SPC and DMC)
 - Cream
 - Condensed milk
 - Skim milk powder & whole milk powder.
- ❖ Determination of yeast and mold count in butter.
- ❖ Evidence of staphylococci and coliforms in milk products
- ❖ Study of spoilage type and pathogenic organisms associated with milk & milk products
- ❖ Identification and maintenance of microbial cultures.
- ❖ Propagation and preservation of dairy starters.
- ❖ Preparation of yoghurt, kefir, acidophil as milk and kumiss.
- ❖ Microbiological analysis of air, water and soil.
- ❖ Rinse and swab techniques
- ❖ Field visits: Vidhya Dairy, Ananad.

M.Sc. II Year
Dairy Science
(Based on Theory paper XIII & XVIII)
Laboratory Course : 07

Practical per week one

Credit : 04

Practical's

- ❖ Preparation of different type of plant lay-outs.
- ❖ Preparation of organizational charts.
- ❖ Preparation of inspection schedule and inspection charts.
- ❖ Study of maintenance of cold store and calculation of cooling load.
- ❖ Study of various dairy plant equipments and their maintenance.
- ❖ Study of CIP system
- ❖ Preparation of detergent & sanitizer solutions of desired strength.
- ❖ Study of repairs and overhauls.
- ❖ Study of effluent treatment plant.
- ❖ Study of process equipments like chillers, filters/clarifiers, separators, pasteurizers, homogenizers, butter churns & accessories, storage tanks & milk silos, vats, freezer, cheese equipments,
- ❖ Can washer, bottle & crate washers
- ❖ Study of compression, refrigeration and air conditioning.
- ❖ Study of condensing and vacuum pan.
- ❖ Study of conveying systems in dairy plant.
- ❖ Students visits to:
 - Maintenance department of dairy plant.
 - Workshops
 - Modern Dairy plant.

॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

“Dnyanteerth”, Vishnupuri, Nanded - 431606 Maharashtra State (INDIA)

Established on 17th September 1994 – Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



ACADEMIC (1-BOARD OF STUDIES) SECTION

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संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदव्युत्तर स्तरावरील प्रथम वर्षाचे CBCS Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ३० एप्रिल २०१९ रोजी संपन्न झालेल्या ४३व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.५/४३-२०१९ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदव्युत्तर स्तरावरील प्रथम वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्यात येत आहेत.

- १) एम.ए.—प्रथम वर्ष—इंग्रजी
- २) एम.ए.—प्रथम वर्ष—हिंदी
- ३) एम.ए.—प्रथम वर्ष—मराठी
- ४) एम.ए.—प्रथम वर्ष—संस्कृत
- ५) एम.ए.—प्रथम वर्ष—उर्दू
- ६) एम.ए.—प्रथम वर्ष—अर्थशास्त्र
- ७) एम.ए.—प्रथम वर्ष—भूगोल
- ८) एम.ए.—प्रथम वर्ष—इतिहास
- ९) एम.ए.—प्रथम वर्ष—तत्त्वज्ञान
- १०) एम.ए.—प्रथम वर्ष—राज्यशास्त्र
- ११) एम.ए.—प्रथम वर्ष—मानसशास्त्र
- १२) एम.ए.—प्रथम वर्ष—लोकप्रशासन
- १३) एम.ए.—प्रथम वर्ष—समाजशास्त्र

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,
विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदव्युत्तर-सीबीसीएस अभ्यासक्रम/
२०१९-२०/६७

दिनांक : १७.०६.२०१९.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

स्वाक्षरित/—

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग



**SWAMI RAMANAND TEERTH
MARATHWADA UNIVERSITY, NANDED**

SYLLABUS

GEOGRAPHY

M.A./M.Sc. FIRST YEAR

SEMESTER PATTERN

(Choice Based Credit System)

With Effect From June 2019

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
Semester Pattern Choice Based Credit System (CBCS) Course Structure
M. A./M.Sc. First Year
Subject-Geography
With effect from: June, 2019

Semester-I

Paper No.	Title of the Paper	Periods per week	Total No. of Periods	Marks			Credits	Duration of Examination
				CA	ESE	Total		
I	Geomorphology	4	50	25	75	100	4	3 Hour
II	Climatology	4	50	25	75	100	4	3 Hour
III	Economic Geography Or Geography of Environment	4	50	25	75	100	4	3 Hour
IV	Geography Practical	6	70	25	75	100	4	4 Hour
Total		18	220	100	300	400	16	

Semester-II

Paper No.	Title of the Paper	Periods per week	Total No. of Periods	Marks			Credits	Duration of Examination
				CA	ESE	Total		
V	Oceanography	4	50	25	75	100	4	3 Hour
VI	Settlement Geography	4	50	25	75	100	4	3 Hour
VII	Political Geography Or Geography of India	4	50	25	75	100	4	3 Hour
VIII	Geography Practical	6	70	25	75	100	4	4 Hour
Total		18	220	100	300	400	16	

Note :

1. Continuous Assessment (25 marks) will be as follows
 - a. Two tests of 5 mark each. = 10 Marks
 - b. Home assignment = 10 Marks
 - c. Seminar = 05 Marks
2. Total periods for each theory paper shall be 50 per semester.
3. Total periods for each practical paper shall be 70 per semester
4. Strength of students for each practical batch shall not be more than twelve (12)
5. Six periods for practical per batch per week
6. Submission of certified journal and field report is compulsory without which students will not be allowed to appear for practical examination.

Question Paper Model and Scheme of Marking

Subject: **GEOGRAPHY**

M. A. First Year (Semester I and II) **Theory (Paper I, II, III, and V, VI,VII)**

(w. e. f. June 2019)

Marks: 75

Q.1 Descriptive type question (20)

OR

Descriptive type question

Q.2 Descriptive type question (20)

OR

Descriptive type question

Q.3 Write short answer on *any two* of the following (20)

a) Short answer

b) Short answer

c) Short answer

d) Short answer

Q.4 Write a short note on *any two* of the following (15)

a) Short note

b) Short note

c) Short note

d) Short note

Question Paper Model and Scheme of Marking

Subject: **GEOGRAPHY**

M. A. First Year (Semester I) **Practical (Paper IV)**

(w. e. f. June 2019)

	Marks: 75

Q.1. a) Calculate the slope in degree, gradient, mills and percentage	02
b) Draw Profile	08
c) Method of Slope Analyses	10
Q.2. Interpretation of Topographical Map (any two feature)	10
Q.3. a) Prismatic compass Survey	08
b) Dumpy Level Survey	08
c) Bowditch's Method	08
Q.4. a) Measuring of the height using Abney level	06
b) Field Visit Report	05
Q.5 .Journal and Viva	10

Question Paper Model and Scheme of Marking

Subject: **GEOGRAPHY**

M. A. First Year (Semester II) **Practical (Paper VIII)**

(w. e. f. June 2019)

Marks: 75

Q.1. a) Drawing of Isoline/ Ergograph/ Climatograph (any one)	10
b) Draw Star Diagram/ Wind Rose/ Octogonal Wind Rose/ Rainfall Dispersion (any one)	05
Q.2. a) Interpret the Indian Daily Weather Report	10
b) Prepare weather station model	05
Q.3. a) Graphical Presentation of Frequency	05
b) Methods of Measuring Deviation	10
c) Methods of Measuring Correlation	10
Q.4 Tour Report	10
Q.5 .Journal and Viva-voce	10

**M.A. / M.Sc. FIRST YEAR
SEMESTER-I
PAPER-I
GEOMORPHOLOGY**

Marks: 100

Credit: 04

Period: 50

Salient Features

1. The aim of this course is to introduce the students with the fundamentals of geomorphology.

Utility

1. To help students to know the evolutionary stages of the earth. To geomorphologic imprints on the earth through structure, process and stage during different geological time scale.

Learning Objectives

1. To provide in depth knowledge about geomorphology
2. To prepare students for various competitive examinations
3. To nurture scientific and research approach among the students

Pre-requisites

1. Books, Maps, Globe, Models
 2. ICT, Field Visit
-

Unit-I Introduction

08 Periods

- A. Definition, Nature and Scope of Geomorphology
- B. Fundamental Concepts in Geomorphology

Unit-II Earth Movements

08 Periods

- A. Epeirogenic Process-Causes and Effects
- B. Orogenic Process- Causes and Effects

Unit-III Theories

08 Periods

- A. Wegner's Continental Drift Theory
- B. Isostasy Theory
- C. Plate Tectonics Theory
- D. Concept of Cycle of Erosion

Unit-IV Exogenic Processes

08 Periods

- A. Causes, Types and Classification of Weathering and Mass Movement
- B. Concept of Slope Evolution,
 1. Slope Decline Theory- W. M. Davis
 2. Parallel Retreat Theory - L.C. King
 3. Slope Replacement Theory – W. Penck

Unit-V Geomorphic Processes and Resulting Landforms**10 Periods**

- A. Fluvial B. Arid C. Glacial
D. Coastal

Unit-VI Application of Geomorphology to Human Activities**08 Periods**

- A. Settlements B. Transport C. Mining

Suggested Readings

1. Chorley, R.J. : Spatial Analysis in Geomorphology
2. Cooke, R.U. and : Geomorphology in Environmental
Doomkamp, J.C. Management an Introduction
3. Dury, G.H. : The Face of the Earth
4. Fairbridge R.W. : Encyclopedia of Geomorphology
5. Goudie A. : The Nature of the Environment
6. Gamer, H.P. : The Origin of Landscape
7. Mitchell, C.W. : Terrain Evaluation
8. Ollier, C.D. : Weathering
9. Pitty, A.F. : Introduction to Geomorphology
10. Stoddart, D.R. : Process and Form in Geomorphology
11. Skinner, B.J. &
Porter, S.C. : The Dynamic Earth
12. Sparks, B.W. : Geomorphology
13. Sharma, H.S. : Perspectives in Geomorphology
14. Singh, S. : Geomorphology
15. Thornbury, W.D. : Principles of Geomorphology

**M.A. / M.Sc. FIRST YEAR
SEMESTER-I
PAPER-II
CLIMATOLOGY**

Marks: 100

Credit: 04

Period: 50

Salient Features

1. The aim of this course is to introduce the students with fundamentals of climatology.

Utility

1. To understand the climate since the formation of the earth and changes those have occurred over a period of time, and to predict climate changes.

Learning Objectives

1. To provide in depth knowledge about climatology
2. To prepare students for various competitive examinations
3. To nurture scientific and research approach among the students

Pre-requisites

1. Books, Maps, Globe, Models
 2. ICT
-

Unit-I Introduction and Insolation 10 Periods

- A. Nature and Scope of Climatology and its Relationship with Meteorology.
Composition and Structure of the Atmosphere
- B. Insolation, Heat Balance of the Earth.
Vertical and Horizontal Distribution of Temperature

Unit-II Atmospheric pressure and Winds 10 Periods

- A. Atmospheric Pressure. Vertical and Horizontal Distribution of Pressure,
Pressure Belts.
- B. Planetary Winds, Periodic Winds, Local Winds and Monsoons

Unit-III Atmospheric moisture and precipitation 10 Periods

- A. Atmospheric Moisture: Humidity, Evaporation, Condensation,
Precipitation Formation and Types.
- B. Acid Rain, World Pattern of Precipitation

Unit-IV Air Mass and Cyclones 10 Periods

- A. Concept of Air Mass and Classification, Frontogenesis and Frontolysis
- B. Temperate and Tropical Cyclones and Anticyclones
- C. Ocean Atmospheric Interaction – El Nino, Southern Oscillation and La Nina

Unit-V Climate Classification and Environmental Issues 10 Periods

- A. Koppen's and Thornthwaite's Classification of Climate of the World.
- B. Global Warming Causes and Environmental Impacts.
- C. Applied Climatology and Urban Climate

Suggested Readings:

- 1) Barry, R.G. and Chorley P.J. : Atmosphere, Weather and Climate
- 2) Critchfield, J.H. : General Climatology
- 3) Das P.K. : Monsoons
- 4) Fein, J.S. and Stephens, P.N. : Monsoons
- 5) India Met. Dept. : Climatological Tables of
Observatories in India
- 6) Lal, D.S. : Climatology
- 7) Lydolph, P.E. : The Climate of the Earth
- 8) Menon, P.A. : Our Weather
- 9) Peterson, S. : Introduction to Meteorology
- 10) Robinson, P.J. and Henderson S. : Contemporary Climatology
- 11) Thompson, R.D. and Perry : Applied Climatology, Principles and
Practice

**M.A. / M.Sc. FIRST YEAR
SEMESTER-I
PAPER-III
ECONOMIC GEOGRAPHY**

Marks: 100

Credit: 04

Period: 50

Salient Features

1. The aim of this course is to introduce the students with fundamentals of economic geography.

Utility

1. To study the distribution of natural resources and their impact on location economic activities. Resource utilization and economic development in northern and southern countries of the world.

Learning Objectives

1. To provide in depth knowledge about economic geography
2. To prepare students for various competitive examinations
3. To nurture scientific and research approach among the students

Pre-requisites

1. Books, Maps, Globe, Models
 2. ICT
-

Unit-I Introduction and Location of Economic Activities **10 Periods**

- A. Definition, Nature and Scope of Economic Geography. Relation of Economic Geography With Economics and Other Branches of Social Sciences.
- B. Location of Economic Activities and Spatial Organization of Economics.
Classification of Economies: Sectors of Economy-Primary, Secondary and Tertiary.

Unit-II Energy Resources **10 Periods**

- A. Factors of Location of Economic Activities: Physical, Social, Economic and Cultural.
- B. Distribution of Energy Resources in the World
 1. Coal
 2. Petroleum
 3. Natural Gas
- C. World Energy Crises in Developed and Developing Countries

Unit-III Industrial Location Theories and Industries **10 Periods**

- A. Classification of Industries
- B. Theories of Industrial Location-
 1. Alfred Weber,
 2. August Losch
 3. Walter Isard
- C. Case Studies of Selected Industries in the World with Special Reference to India-
 1. Iron and Steel,
 2. Cotton
 3. Chemical

Unit-IV Modes of transportation and spatial interaction**10 Periods**

- A. Modes of Transportation and Transport Cost
- B. Theories and Models of Spatial Interaction (Edward Ullman and M. E. Hurst)
Measures and Indices of Connectivity and Accessibility;
- C. Spatial Flow Models: Gravity Model and its Variants,

Unit-V Globalization, Green Revolution And Indian Economy**10 Periods**

- A. Economic Development of India, Regional Disparities in India
- B. Impact of Green Revolution on Indian Economy.
- C. Globalization and Indian Economy and its Impact on Environment.

Suggested Readings

- 1) Berry J.L. : Geography of Market Centers and Retail Distribution
- 2) Chatterjee, S.P. : Economic Geography of Asia
- 3) Chorley, R.J. and
Haggett, P. : Network Analysis in Geography
- 4) Dreze, J. and Sen, A. : India-Economic Development and Social Opportunity.
- 5) Ecklarsley, R. : Markets, the State and the Environment
- 6) Garnier, B.J. and
Delobez: : A Geography of Marketing
- 7) Hamilton, F.E.I. : Spatial Perspectives on Industrial Organization
and Decision Making
- 8) Hamilton, I. : Resources and Industry
- 9) Hurst, E. : Transport Geography-Comments and Readings
- 10) Morgan, W.B. and : Agricultural Geography
Munton R.J.C.
- 11) Pachuri, R.K. : Energy and Economic Development in India
- 12) Robertson, D. : Globalization and Environment
- 13) Rostow, W.W . : The Stages of Economic Growth
- 14) Singh J. and
Dhillon S.S. : Agricultural Geography
- 15) Symons L. : Agricultural Geography
- 16) Wheeler, J.O. : Economic Geography

M.A. / M.Sc. FIRST YEAR
SEMESTER-I
PAPER-III
GEOGRAPHY OF ENVIRONMENT (OR)

Marks: 100

Credit: 04

Period: 50

Salient Features

1. The aim of this course is to introduce the students with fundamentals of geography of environment.

Utility

1. To understand the environment *in toto*, its significance, and ways of conservation and protection of environment.

Learning Objectives

1. To provide in depth knowledge about geography of environment
2. To prepare students for various competitive examinations
3. To nurture scientific and research approach among the students

Pre-requisites

1. Books, Maps, Globe, Models
 2. ICT, Field Visit
-

Unit- I Introduction

10 Periods

- A. Definition, Nature and Scope of Environment Geography of Environment
- B. Environment: Meaning, Nature and Components
- C. Public Awareness through Institution and People in Environment

Unit- II Natural Resources

10 Periods

- A. Natural Resources and Associated Problems
- B. Non- Renewable Resources
- C. Renewable Resources

Unit-III Ecosystem

10 Periods

- A. Concept of an Ecosystem, Structure and Functions of Ecosystem
- B. Energy Flow in the Ecosystem: Hydrological and Carbon Cycle
- C. Food Chain, Food Web and Ecological Pyramid

Unit- IV Biodiversity

10 Periods

- A. Concept of Biodiversity , Importance and Types
- B. Depletion of Biodiversity: Natural and Man Induced Causes
- C. Hotspots of Biodiversity and Conservation of Biodiversity

Unit- V Pollution, Environmental Hazards and Environmental Policies

10 Periods

- A. Pollution: Meaning and Types- Air, Water and Soil. Causes, Effects and Remedies
- B. Environmental Hazards: Global Warming, Urban Heat Island
- C. Environmental Policies: Brundtland Commission, Kyoto Protocol, Sustainable Development Goals

Suggested Readings

- 1) Agarwal, A.et.al. : The Citizen's Fifth Report. Center for Science and Environment, New Delhi, 1998
- 2) Alexander John : Economic Geography, Prentice Hall & W of India Ltd. New Delhi, 1998
- 3) Allen J.L. : Student Atlas of Environmental Issues Dushkin Publication, 1997
- 4) Brown L.R. : In the Human Interest, East-West Press, New Delhi, 1976
- 5) Cutter,L. Renwick H.L. Rowman & Allanheld : Exploitation, Conservation& Preservation: A Geographic Perspective and Natural Resources Use, Wotowa N.J., 1985
- 6) Erach, Bharucha : Textbook of Environmental Studies, Universities Press (India) Pvt. Ltd. Hyderabad, 2005
- 7) Lal, Pranaya : Indica: A Deep Natural History of the Indian Subcontinent, Penguin Random House India, Gurgaon, 2016
- 8) Saxena, H. M. : Environmental Geography, Rawat Publication, Jaipur, 2008
- 9) Singh, Savinder : Environmental Geography, Prayag Pustak Bhandar, Allahabad, 2018

**M.A. / M.Sc. FIRST YEAR
SEMESTER-I
PAPER-IV
PRACTICAL GEOGRAPHY**

Marks: 100

Credit: 04

Period: 70

Salient Features

1. The aim of this course is to introduce the students with basics of profile and slope analysis. Interpretation of topographical maps.

Utility

1. To help students to develop the skills of surveying, collection, presentation and interpretation of data.

Learning Objectives

1. To provide surveying skills, data collection, report writing, etc.
2. To prepare students for various competitive examinations
3. To nurture scientific and research temperament among the students

Pre-requisites

1. Books, Maps, Globe, Models
 2. ICT
-

Unit-I Profile and Slope Analysis

25 Periods

- A. Profile – Serial, Superimposed, Projected, Composite
- B. Slope-Methods of Measurements of Slopes
 - i. Degree
 - ii. Gradient
 - iii. Percentage
 - iv. Mills
- C. Methods of Slope Analysis
 - i. C.K. Wentworth's Method
 - ii. G.H. Smith's Method
 - iii. Robinson's Dot Method

Unit-II Interpretation of SOI Maps

15 Periods

Interpretation of Topographical Maps of Coastal, Mountainous, Arid and Plain Regions of India and Foreign Countries.

Unit-III Surveying

15 Periods

- A. Prismatic Compass Survey-Open and Close Traverse Correction of Bearings by Bowditch's Method.
- B. Dumpy Level Survey.
- C. Measurement of Height by Abney Level and Indian Clinometer.

Unit-IV Field Visit and Preparation of Report

15 Periods

Students to be taken on a field visit for one day to nearby areas.

Main objectives of field visit are:

- i. To prepare contour plan by using Dumpy level.
- ii. To measure height by using Abney Level and Indian clinometers
- iii. To identify the landforms on the surface, while in the field. Also note the agents of erosion, transportation and deposition associated with the landforms.
- iv. To prepare the report with maps, sketches, photographs etc.

Suggested Readings

- 1) Croxton & Cowden : Applied General Statistics
- 2) Hammod & Mc Gullah : Quantitative Techniques in Geography
- 3) Khan Z.A. : Text Book of Practical Geography
- 4) Mishra R.P. and Ramesh A. : Fundamentals of Cartography
- 5) Pal, S.K. : Statistics for Geoscientists
- 6) Robinson, A.H. : Elements of Cartography
- 7) Sarkar A.K. : Practical Geography-A Systematic Approach
- 8) Sing, R.L. and Dutt, P.K. : Elements of Practical Geography Kalyani Publishers, New Delhi 1979
- 9) Singh and Singh : Mapwork and Practical Geography
- 10) Sarkar, A. : Practical Geography – A Systematic Approach – Orient Longman Calcutta, 1997.

**M.A. / M.Sc. FIRST YEAR
SEMESTER-II
PAPER-V
OCEANOGRAPHY**

Marks: 100

Credit: 04

Period: 50

Salient Features

1. The aim of this course is to introduce the students with fundamentals of Ocean geography.

Utility

1. To understand the significance of oceanography and its influence on climate change, habitation and its different dimensions.

Learning Objectives

1. To provide in depth knowledge about oceanography
2. To prepare students for various competitive examinations
3. To nurture scientific and research approach among the students

Pre-requisites

1. Books, Maps, Globe, Models
 2. ICT
-

Unit-I Introduction and Bottom Topography of Oceans 10 Periods

- A. Definition, Nature and Scope of Oceanography
- B. Nature of Ocean Floor-Continental Shelf, Continental Slope, Deep Ocean Basin and Trenches. Expansion of Ocean Floor.
- C. Bottom Topography of The Atlantic, Pacific and Indian Oceans.

Unit-II Ocean Temperature and Salinity 10 Periods

- A. Physical and Chemical Properties of Sea Water, Heat and Salt Budgets of Ocean.
- B. Distribution of Temperature and Salinity.

Unit-II Ocean Circulations 10 Periods

- A. Ocean Circulation: Oceanic Currents, Factors Affecting on Oceanic Currents, Currents of Atlantic, Pacific and Indian Ocean.
- B. Sea Waves, Tides and Tsunami

Unit-IV Marine Deposits and Resources 10 Periods

- A. Marine Deposits – Classification of Deposits, Coral Reefs, Coral Bleaching
- B. Marine Resources: Biological Resources, Mineral Resources and Energy Resources

Unit-VI Human Intervention and Laws of Sea 10 Periods

- A. Sea Level Changes and its Impact.
- B. Impact of Human on Marine Environment, Laws of Sea.

Suggested Readings:

- 1) Anikouchine, W.A. and Sternberg, R.W. : The world Oceans: An Introduction to Oceanography
- 2) Grald S. : General Oceanography – An Introduction
- 3) Garrison T. : Oceanography
- 4) King C.A.M. : Beaches and Coasts
- 5) King C.A.M. : Oceanography and Geographers
- 6) Sharma R.C. Vatel M. : Oceanography for Geographers
- 7) Shepard, F.P. : Submarine Geology
- 8) Thurman, H.B. : Introductory Oceanography
- 9) Weisberg J and Howard : Introductory Oceanography

**M.A. / M.Sc. FIRST YEAR
SEMESTER-II
PAPER-VI
SETTLEMENT GEOGRAPHY**

Marks: 100

Credit: 04

Period: 50

Salient Features

1. The aim of this course is to introduce the students with fundamentals of Settlement Geography.

Utility

1. To understand the process of evolution of rural and urban centre in the world and in India
2. To understand global urban trends and problems and contemporary issues in India.

Learning Objectives

1. To provide in depth knowledge about settlement geography
2. To prepare students for various competitive examinations
3. To nurture scientific and research approach among the students

Pre-requisites

1. Books, Maps, Globe, Models
 2. ICT, Field Visit
-

Unit-I Introduction

08Periods

- A. Definition, Nature and Scope of Settlement Geography
- B. Importance of the Study of Settlement Geography
- C. Origin and Evaluation Settlements

Unit-II Rural Settlement in India

08Periods

- A. Types and Patterns of Rural Settlements
- B. Distribution of Rural Settlement in India
- C. Contemporary Problems of Rural Settlements
 1. Rural-Urban Migration
 2. Landuse Changes
 3. Land Acquisition and Transactions

Unit-III Origin of Towns and Urbanization

08Periods

- A. Theories of Origin of Towns
 1. Gordon Childe
 2. Henri Pirenne
- B. Processes and Characteristics of Urbanization in Developed and Developing Countries
- C. Factors of Urban Growth, Trends of Urbanization, and Functions of Urban Areas
- D. Urban Systems :The Law Of The Primate City and Rank Size Rule

Unit- IV Urban Concepts**08Periods**

- A. Concept of Megalopolis (Megacities), Conurbation, City Region, Smart City and its Characteristics, Global Cities and Edge Cities
- B. Concept of Central Business District (CBD), Hinterland, Umland and its Characteristics.
- C. Changing Urban Forms : Peri-Urban Areas, Rural-Urban Fringe, Suburban Ring and Satellite Towns

Unit-V Models of Urban Land Use**10Periods**

- A. Central Place Theory of Christaller and Losch.
- B. Theory of Peroux and Boudeville
- C. Concentric Zone Model by E.W. Burgess
- D. Sector Model by Homer Hoyte
- E. Multiple Nuclei Model by Harris and Ullman.

Unit-VI Morphology of Indian Cities and Urban Issues in India**08Periods**

- A. Morphological Characteristics of Indian Cities.
- B. Basic and Non-Basic Functions.
- C. Contemporary Urban Issues of Indian Urban Centers
 - 1. Slums
 - 2. Urban Renewal,
 - 3. Urban Infrastructure
 - 4. Environmental Pollution

Suggested Readings:

- 1) Alam, S.M. : Hyderabad, Secunderabad Twin Cities
- 2) Berry B.J.L. and Horton F.F. : Geographic Perspectives on Urban Systems
- 3) Carter H. : The Study of Urban Geography
- 4) Chorley, R.J.O. Haggett P. : Models of Geography
- 5) Dickinson, R.E. : City and Region
- 6) Dwyer, D.J. : The City as a Center of Change in Asia
- 7) Gibbs, G.P. : Urban Research Methods
- 8) Hall, P. : Urban Development and Urban Geography
- 9) Kundu, A. : Urban Development and Urban Geography
- 10) Mumford, L. : Culture of Cities
- 11) Smailes A.E. : The Geography of Towns
- 12) Meyor and Kohn : Reading in Urban Geography

**M.A. / M.Sc. FIRST YEAR
SEMESTER-II
PAPER-VII
POLITICAL GEOGRAPHY**

Marks: 100

Credit: 04

Period: 50

Salient Features

1. The aim of this course is to introduce the students with fundamentals of Political Geography.

Utility

2. To understand the geopolitics, its significance, and international relations.

Learning Objectives

1. To provide in depth knowledge about political geography
2. To prepare students for various competitive examinations
3. To nurture scientific and research approach among the students

Pre-requisites

1. Books, Maps, Globe, Models
 2. ICT
-

Unit-I Introduction

10 Periods

- A. Definition, Nature and Scope of Political Geography
- B. Recent Development in Political Geography
- C. Approaches to the Study of Political Geography

Unit-II Geographic Elements of State

10 Periods

- A. Geographic Elements and the State :
Physical, Cultural and Economic Elements
- B. Political Geography and Environment Interface

Unit-III Themes in Political Geography

10 Periods

- A. Themes in Political Geography
State, Nation and Nation-State and Nation-Building
- B. Frontiers and Boundaries, Core Areas

Unit-IV Global strategic Views

10 Periods

- A. Geopolitical significance of the Indian Ocean
- B. Global Strategic Views : The Views of Mackinder, Spykman,
and Mahan and Their Relevance to Contemporary World Situation.

Unit-V Political Geography of contemporary India

10 Periods

- A. Political Geography of Contemporary India with Special Reference to
Changing Political Map of India.
- B. Centripetal and Centrifugal Forces; Stability and Instability; Interstate Issues (Like
Water Disputes and Riparian Claims) and Conflict Resolutions, Insurgency in Border
States; Emergence of New State; Federal India : Unity in Diversity

Suggested Readings

- 1) Alexander, L.M. : World Political Patterns
- 2) De Blij, H.J. and Glassner, Matrin : Systematic Political Geography
- 3) Dikshit, R.D. : Political Geography
- 4) Sukhwal, B.L. : Modern Political Geography of India.
- 5) Taylor, B.L. : Political Geography
- 6) Pounds N.J.G. : Political Geography
- 7) John, R. Short : An Introduction of Political
Geography
- 8) Moddie, A.E. : Geography Behind Politics
- 9) Prescott, J.R.V. : The Geography of Frontiers and
Boundaries
- 10) Deshpande C.D. : India – A Regional Interpretation
- 11) Panikkar K.M. : Geographical Factors in Indian
History

**M.A. / M.Sc. FIRST YEAR
SEMESTER-II
PAPER-VII
GEOGRAPHY OF INDIA (OR)**

Marks:100

Credit: 04

Period: 50

Salient Features

1. The aim of this course is to introduce the students with location and physical settings of India and to understand the significance of unity in the diversity
2. To acquaint the students with regional knowledge of India

Utility

1. To appreciate the regional diversity and to develop acclimatizing temperament among the students

Learning Objectives

1. To provide in depth knowledge about Indian geography
2. To prepare students for various competitive examinations
3. To nurture scientific and research temperament among the students

Pre-requisites

1. Books, Maps, Globe, Models
 2. ICT
-

Unit- I Introduction

10 Periods

- A. India in the Context of South and South-East Asia
- B. Physical Regions of India
- C. Drainage System of India

Unit- II Regional and Seasonal Variations of Climate

08 Periods

- A. The Indian Monsoon-Mechanism and Characteristics
- B. Seasonal Weather Characteristics and Climatic Divisions.

Unit- III Natural Resources

08 Periods

- A. Soil, Vegetation, and Water resources and their Distribution
- B. Mineral Resources and Their Distribution
1.Iron 2.Coal 3.Petroleum

Unit- IV Indian Population and Agriculture

10Periods

- A. Growth of Rural and Urban Population
- B. Composition of Rural and Urban Population (Age and Sex Ratio)
- C. Major Crop Regions
- D. Green Revolution: Impact and Regional Disparity

Unit- V Development and Pattern of Transport Network**08 Periods**

- A. Roadways, Railways, Waterways, Airways and Pipelines.
- B. Internal and External Trade, Composition and Directions
- C. Industrial Regions and their Characteristics

Unit- VI Natural Calamities and Riparian Geopolitics**06Periods**

- A. Natural Disasters: Earthquake, Flood and Cyclones
- B. Indian Riparian Geopolitics- Sindhu and Brahmaputra Rivers

Suggested Readings

1. Deshpande, C.D. : India : A Regional Interpretation, Northern Book Center, New Delhi 1992.
2. Farmer, B.H. : An introduction to South Asia Methuen, London, 1983.
3. Govt. of India : India-References Annual 2001, Pub.Div., New Delhi, 2001.
4. Govt. of India : National Atlas of India NATMO Publications, Calcutta.
5. Govt. of India : The Gazetteer of India, Vol.1 & 3 Publication Division, New Delhi, 1965.
6. Learmonth, A.T.A. : Man and Land of South Asia, Concept, New Delhi.
7. Mitra, A. : Levels of Regional Development in India- Census of India-Vol.2 (A) (1) & (2) New Delhi, 1987.
8. Routray, J.K. : Geography of Regional Disparity, Asian Institute of Technology, Bangkok, 1993.
9. Shafi, M. : Geography of South Asia- Mc Millan & Co. Calcutta, 2000.
10. Singh R.L. : Indian : A Regional Geography : National Geographical Society India, Varanasi, 1971.
11. Spate, OHK & Learmonth A.T.A. : India & Pakistan – Land People & Economy-Methuen & Co.London, 1967
12. Wadia, D.N. : Geography of India- McMillan & Co.London.
13. Sharma T.C. : Economic & Commercial Geography of India – Vikas Publication House, New Delhi
१४. डॉ. एस.टी. शेठे, : भारताचा भूगोल, अभिजीत प्रकाशन, लातूर.
डॉ. के.बी. कनकुरे व इतर
१५. केचे पांडुरंग : भारताचा भूगोल, पिंपळापुरे प्रकाशन, औरंगाबाद.

**M.A. / M.Sc. FIRST YEAR
SEMESTER-II
PAPER-VIII
PRACTICAL-II**

Marks: 100

Credit: 04

Period: 70

Salient Features

2. The aim of this course is to introduce the students with basics of representation and interpretation of climatic data, Weather map interpretation.

Utility

2. To help students to understand the significance of quantitative data, presentation and interpretation of data.

Learning Objectives

4. To provide surveying skills, data collection, report writing, etc.
5. To prepare students for various competitive examinations
6. To nurture scientific and research temperament among the students

Pre-requisites

3. Books, Maps, Globe, Models
 4. ICT
-

Unit-I Representation of Climatic Data

20 Periods

- A. Drawings of Isolines
- B. Ergograph
- C. Climatograph
- D. Wind Rose, Octagonal Wind Rose, Star Diagram
- E. Rainfall Dispersion Diagram

Unit-II Interpretation of Weather maps

20 Periods

- A. Interpretation of Weather Maps of India
- B. Weather Station Model
- C. Identification of Climatic Types According to Koppen

Unit-III Quantitative Techniques

20 Periods

- A. Graphical Presentation of Frequency
 - i. Histogram
 - ii. Frequency Polygaon
 - iii. Ogive Curve
- B. Measures of Deviation
 - i. Quartile Deviation
 - ii. Mean Deviation
 - iii. Standard Deviation
- C. Methods of Measuring Correlation
 - i. Scattered Diagram Method
 - ii. Graphic Method
 - iii. Karl Pearson's Method
 - iv. Rank Order Spearman's Method
- D.
 - i. Chi-Sqaure Test and Standard Error
 - ii. Regression Equation and Regression Line

Unit-IV Field Visit and Preparation of Report

10 Periods

Field visit and preparation of report

Students to be taken on a field visit for one day to nearby village/town/

Tourist place. Main objectives of field visit are:

- i. To collect demographic / social / economic data of the households with a structured questionnaire.
- ii. To prepare the report with maps, sketches and photographs

Note :

- a. Total periods of each practical of 100 marks (75+25) shall be 70 per semester.
- b. Strength of students for each practical batch shall not be more than twelve (12).
- c. Submission of certified journal and field report is compulsory.

Suggested Readings

- 1) Croxton & Cowden : Applied General Statistics
- 2) Hammod & Mc Gullah : Quantitative Techniques in Geography
- 3) Khan Z.A. : Text Book of Practical Geography
- 4) Mishra R.P. and Ramesh A. : Fundamentals of Cartography
- 5) Pal, S.K. : Statistics for Geoscientists
- 6) Robinson, A.H. : Elements of Cartography
- 7) Sarkar A.K. : Practical Geography-A Systematic Approach
- 8) Sing, R.L. and Dutt, P.K. : Elements of Practical Geography Kalyani Publishers, New Delhi 1979
- 9) Singh and Singh : Mapwork and Practical Geography
- 10) Sarkar, A. : Practical Geography – A Systematic Approach – Orient Longman Calcutta, 1997.

* * * * *

॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

“Dnyanteerth”, Vishnupuri, Nanded - 431606 Maharashtra State (INDIA)

Established on 17th September 1994 – Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



ACADEMIC (1-BOARD OF STUDIES) SECTION

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संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदव्युत्तर स्तरावरील प्रथम वर्षाचे CBCS Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ३० एप्रिल २०१९ रोजी संपन्न झालेल्या ४३व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.५/४३-२०१९ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदव्युत्तर स्तरावरील प्रथम वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्यात येत आहेत.

- १) एम.ए.—प्रथम वर्ष—इंग्रजी
- २) एम.ए.—प्रथम वर्ष—हिंदी
- ३) एम.ए.—प्रथम वर्ष—मराठी
- ४) एम.ए.—प्रथम वर्ष—संस्कृत
- ५) एम.ए.—प्रथम वर्ष—उर्दू
- ६) एम.ए.—प्रथम वर्ष—अर्थशास्त्र
- ७) एम.ए.—प्रथम वर्ष—भूगोल
- ८) एम.ए.—प्रथम वर्ष—इतिहास
- ९) एम.ए.—प्रथम वर्ष—तत्त्वज्ञान
- १०) एम.ए.—प्रथम वर्ष—राज्यशास्त्र
- ११) एम.ए.—प्रथम वर्ष—मानसशास्त्र
- १२) एम.ए.—प्रथम वर्ष—लोकप्रशासन
- १३) एम.ए.—प्रथम वर्ष—समाजशास्त्र

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,
विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदव्युत्तर-सीबीसीएस अभ्यासक्रम/
२०१९-२०/६७

दिनांक : १७.०६.२०१९.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

स्वाक्षरित/—

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

विषय - मराठी

एम. ए. प्रथम वर्ष अभ्यासक्रम

जून २०१९ पासून

सत्र पहिले

- अभ्यासपत्रिका १ (अनिवार्य) - स्वातंत्र्यपूर्व काळातील मराठी वाङ्मयाचा इतिहास (इ. स. १८१८ ते इ. स. १९४७)
अभ्यासपत्रिका २ (अनिवार्य) - ऐतिहासिक भाषाविज्ञान
अभ्यासपत्रिका ३.१ (ऐच्छिक) - वाङ्मयप्रकारांचा अभ्यास : कथा आणि कादंबरी OR
अभ्यासपत्रिका ३.२ (ऐच्छिक) - मराठी भाषा आणि प्रसारमाध्यमे
अभ्यासपत्रिका ४.१ (ऐच्छिक) - लोकप्रिय साहित्य OR
अभ्यासपत्रिका ४.२ (ऐच्छिक) - भाषांतरविद्या

सत्र दुसरे

- अभ्यासपत्रिका ५ (अनिवार्य) - स्वातंत्र्योत्तर काळातील मराठी वाङ्मयाचा इतिहास (इ. स. १९४७ ते इ. स. २०१०)
अभ्यासपत्रिका ६ (अनिवार्य) - वर्णनात्मक भाषाविज्ञान
अभ्यासपत्रिका ७.१ (ऐच्छिक) - वाङ्मयप्रकारांचा अभ्यास: कविता आणि नाटक OR
अभ्यासपत्रिका ७.२ (ऐच्छिक) - भाषाव्यवहार आणि उपयोजन
अभ्यासपत्रिका ८.१ (ऐच्छिक) - सामाजिक दृष्टिकोनातून साहित्याचा अभ्यास OR
अभ्यासपत्रिका ८.२ (ऐच्छिक) - मराठी बाल-कुमार साहित्य



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड
एम.ए. प्रथम वर्ष अभ्यासक्रम
जून २०१९ पासून
सत्र - पहिले
अभ्यासपत्रिका १ (अनिवार्य)
स्वातंत्र्यपूर्व काळातील मराठी वाङ्मयाचा इतिहास
(इ. स. १८१८ ते इ. स. १९४७)

उद्दिष्टे. -

१. मराठी साहित्याचा अभ्यास करण्यासाठी अभिरुची निर्माण करणे
२. आधुनिक मराठी वाङ्मयाच्या इतिहासातील परंपरा समजून घेणे.
३. स्वातंत्र्यपूर्व मराठी वाङ्मयाची वाटचाल अभ्यास करणे.
४. विविध वाङ्मय प्रकारांचा उद्गम आणि विकास कसा झाला याचा मागोवा घेणे.
५. स्वातंत्र्य चळवळींचे पडसाद साहित्यामध्ये कसे उमटले आहेत, याचा शोध घेणे.
६. ब्रिटिश सरकारच्या प्रभावांचा आणि इंग्रजी साहित्याच्या संपर्कातून मराठी साहित्यात कोणती स्थित्यंतरे घडली, याबद्दल साहित्यिक आणि साहित्यकृती यांचे अवलोकन करणे.
७. मराठी भाषा आणि साहित्य यांच्या कालसुसंगत कसे अनुबंध आहेत, यांचे विवेचन करणे.

उपयोगिता

१. मराठी पदव्युत्तर अभ्यासक्रम पूर्ण करताना प्रगल्भ व्यक्तिमत्त्व निर्माण होण्यासाठी मदत..
२. स्पर्धा परीक्षांच्या तयारीसाठी मराठी वाङ्मयाचा अभ्यास उपयुक्त आहे.
३. स्वातंत्र्यपूर्वकालीन सांस्कृतिक, वाङ्मयीन व ऐतिहासिक पार्श्वभूमीचे आकलन.
४. आधुनिक काळातील मराठी वाङ्मयीन वारसा जतन करणे.
५. मराठी लेखनातील ठळक प्रवृत्ती, ग्रंथकार आणि साहित्यकृती या अनुषंगाने साहित्याचा अभ्यास करणे.

अभ्यासघटक

१. इ स १८१८ ते स्वातंत्र्यपूर्व या कालखंडातील स्थित्यंतराच्या पार्श्वभूमीवर साहित्यनिर्मितीच्या प्रेरणा समजून घेणे.

२. प्रस्तुत कालावधीतील सांस्कृतिक आणि वाङ्मयीन पार्श्वभूमी, स्वातंत्र्यलढा आणि वाङ्मयीन चळवळी, प्रसारमाध्यमे आणि वाङ्मय प्रकारांचा उदय, नववर्गाचा उगम आणि इंग्रजी साहित्याचा परिचय, शासकीय पातळीवरून साहित्यनिर्मितीचे प्रयत्न इ. घटकांचा अभ्यास करणे अभिप्रेत आहे.
३. अभ्यास परिपूर्ण होण्यासाठी पुढील वाङ्मय प्रकारनिहाय अभ्यास.....
- अ. निबंध
आ. नाटक
इ. कविता
ई. कथा
उ. कादंबरी
ऊ. ललित गद्य (चरित्र, आत्मचरित्र व प्रवासवर्णन)

संदर्भ ग्रंथ

- मराठी वाङ्मयाचा इतिहास – महाराष्ट्र साहित्य परिषद, पुणे
मराठी वाङ्मयाचा विवेचक इतिहास – प्र. न. जोशी
अर्वाचीन मराठी साहित्याची सांस्कृतिक पार्श्वभूमी – सदा क-हाडे
मराठी साहित्याची सांस्कृतिक पार्श्वभूमी – गो. म. कुलकर्णी
आधुनिक मराठी वाङ्मयाचा इतिहास – अ. ना. देशपांडे
प्रदक्षिणा – कॉन्टीनेन्टल प्रकाशन, पुणे
मराठी कादंबरी पहिले शतक – उषा हस्तक
धार आणि काठ – नरहर कुरुंदकर
मराठी कथा उद्गम आणि विकास – इंदुमती शेवडे
मराठी वृत्तपत्रांचा इतिहास – वा. के. लेले



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

एम.ए. प्रथम वर्ष अभ्यासक्रम

जून २०१९ पासून

सत्र - पहिले

अभ्यासपत्रिका २ (अनिवार्य)

ऐतिहासिक भाषाविज्ञान

उद्दिष्टे

१. भाषाविज्ञान ही संकल्पना समजून घेणे.
२. भाषेचा इतिहास समजून घेणे.
३. भाषेच्या शास्त्रशुद्ध अभ्यासाचे इतिहासातील प्रमुख टप्पे लक्षात घेणे.
४. बोलीविषयीचे गैरसमज दूर करणे

उपयोगिता

१. मराठी भाषेचा इतिहास समजून येईल.
२. बोलीविषयीचे गैरसमज दूर होतील
३. भाषा अभ्यासाच्या विविध दृष्टीकोनांचा परिचय होईल.
४. स्वभाषेकडे पाहण्याची नवी दृष्टी विकसित होईल.

अभ्यासघटक

१. भाषाविज्ञान: संज्ञा, व्याख्या. भूमिका, इतिहास, महत्व. प्रमुख प्रवाह.
२. मराठी भाषेची उत्पत्ती व पूर्वपिठिका
३. मराठीचे कालिक आणि प्रांतिक भेद
४. प्रमाणभाषा आणि बोली: संकल्पना व स्वरूप, साम्यभेद, बोली अभ्यासाची गरज.
५. मराठीच्या प्रमुख बोली
६. मराठी शब्दसंग्रह
७. इतर भाषांचा मराठीवर होणारा परिणाम

संदर्भ ग्रंथ

- मराठीचे ऐतिहासिक भाषाशास्त्र – र. रा. गोसावी, सूर्यकांत वैद्य
भाषा आणि भाषाशास्त्र – श्री. न. गजेंद्रगडकर
भाषाविज्ञान: वर्णनात्मक आणि ऐतिहासिक – (संपा) स.ग. मालशे, हे. वि. इनामदार, अंजली सोमण
मराठीचा भाषिक अभ्यास – (संपा) मु. श्री. कानडे
सुलभ भाषाविज्ञान – द. दि. पुंडे
मराठी भाषेचा आर्थिक संसार – अशोक केळकर
ऐतिहासिक भाषाविज्ञान आणि मराठी भाषा – सुवर्णा खोडदे
ग्रामीण कादंबरी: मराठवाडी बोलीचे स्वरूप – विठ्ठल जंबाले



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड
एम.ए. प्रथम वर्ष अभ्यासक्रम
जून २०१९ पासून
सत्र - पहिले
अभ्यासपत्रिका ३.१ (ऐच्छिक)
वाङ्मयप्रकारांचा अभ्यास : कथा आणि कादंबरी

उद्दिष्टे

1. कथा-कादंबरी या वाङ्मयप्रकारांची ओळख करून देणे.
2. स्वातंत्र्योत्तर काळातील कथा आणि कादंबरीचे स्वरूप-वैशिष्ट्ये सांगणे.
3. निवडक कथाकार आणि कादंबरीकार यांच्या साहित्यकृतींची ओळख करून घेणे
4. कथा आणि कादंबरीचे घटक, विशेष, प्रकार आणि रचनाबंध इ.चा परिचय करून देणे.
5. कथा आणि कादंबरी या वाङ्मयप्रकारांबद्दल अभिरूची विकसित करणे.
6. अभ्यासक्रमातील साहित्यकृतीचे आकलन, आस्वाद व मूल्यमापन करणे.

उपयोगिता

1. कथा आणि कादंबरीच्या अभ्यासातून जीवनदर्शन.
2. समकालीन सामाजिक प्रश्न समजून घेण्यास मदत.
3. लेखकाच्या लेखनशैलीचे स्वरूप समजून घेण्यास मदत.
4. कथा आणि कादंबरी या वाङ्मयप्रकारांविषयी अभिरूची विकसित होण्यास आधार.
5. नवोदित लेखकांना लेखनासाठी प्रेरणा.

अभ्यासघटक

1. कथा आणि कादंबरी व्याख्या, स्वरूप घटक
(कथानक, पात्र, निवेदन, भाषाशैली, कालखंड इ.)
2. कथा/कादंबरीच्या प्रकारांचा आणि प्रवाहांचा स्थूल परिचय
(ऐतिहासिक, सामाजिक, राजकीय, ग्रामीण, प्रादेशिक, महानगरीय, स्त्रीवादी, दलित, आदिवासी इ.)

3. अभ्यासाला नेमलेल्या साहित्यकृती

अ.) कथासंग्रह

1. मरण स्वस्त होत आहे - बाबुराव बागूल
2. आलोक - आसाराम लोमटे

ब.) कादंबरी

1. मुंबई दिनांक - अरूण साधू
2. भूमी - आशा बगे

संदर्भग्रंथ :

मराठी कथा : उगम आणि विकास - इंदुमती शेवडे

दलित कथा - गंगाधर पानतावणे

मराठवाड्याची कथा - संपा. वासुदेव मुलाटे

मराठी कथा : प्रवृत्ती आणि प्रवाह - रा.गो. चवरे

कादंबरी : एक साहित्यप्रकार - हरिश्चंद्र थोरात

मराठी कादंबरी : चिंतन आणि समीक्षा - चंद्रकांत बांदिवडेकर

गेल्या अर्धशतकातील मराठी कादंबरी - संपा. विलास खोले

दलित साहित्य : उद्गम व विकास - योगेंद्र मेश्राम

मराठी कादंबरीतील भाषा: आकलन आणि मूल्यमापन – विठ्ठल जंबाले



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

एम.ए. प्रथम वर्ष अभ्यासक्रम

जून २०१९ पासून

सत्र - पहिले

अभ्यासपत्रिका ३.२ (ऐच्छिक)

मराठी भाषा आणि प्रसारमाध्यमे

उद्दिष्टे

१. भाषेचे उपयोजन लक्षात आणून देणे
२. मराठी भाषेच्या ऐतिहासिक वाटचालीचे आकलन करणे
३. प्रसारमाध्यमांचे बदलते स्वरूप समजून घेणे
४. मुद्रित, श्राव्य, दृक आणि दृकश्राव्य माध्यमातील भाषेचे स्वरूप लक्षात घेणे

उपयोजन

१. मराठी भाषेची भिन्नस्तरीय उपयोगिता लक्षात येईल.
२. विविध टप्प्यांवरील मराठीच्या बदलांमध्ये प्रसार माध्यमांचे योगदान समजून येईल.
३. प्रसार माध्यमांचा इतिहास लक्षात येईल.
४. विविध प्रसार माध्यमातील प्रत्यक्ष भाषेचे उपयोजन अभ्यासता येईल.

अभ्यासघटक

१. भाषा: संकल्पना
२. मराठी भाषा : वाटचालीचा स्थूल आढावा
३. प्रसारमाध्यमे : संकल्पना व स्वरूप
४. मध्ययुगीन काळातील प्रसारमाध्यमे आणि मराठी भाषेचे उपयोजन
५. आधुनिक काळातील प्रसारमाध्यमे आणि मराठी भाषेचे उपयोजन
६. जागतिकीकरणाच्या काळातील प्रसारमाध्यमे आणि मराठी भाषेचे उपयोजन

संदर्भ ग्रंथ

भाषाचिंतन – केशव सखाराम देशमुख
माध्यम चित्रवाणी – आकाशानंद
संगणक युग – अच्युत गोडबोले
इंटर नेट – प्रबोध चौभे
आकाशवाणी – विश्वकर्मा रासबिहारी
दूरदर्शनसाठी लेखन – केशव केळकर
जाहिरातीचे युग – यशोदा भागवत
व्यावहारिक मराठी – प्रकाश परब
मराठी भाषिक कौशल्ये विकास – (संपा) पृथ्वीराज तौर



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड
एम.ए. प्रथम वर्ष अभ्यासक्रम
जून २०१९ पासून
सत्र - पहिले
अभ्यासपत्रिका ४.१ (ऐच्छिक)
लोकप्रिय साहित्य

उद्दिष्टे

१. लोकप्रिय साहित्य ही संकल्पना समजून घेणे.
२. वाचकांची अभिरुची आणि साहित्य निर्मिती यांचा अनुबंध स्पष्ट करणे.
३. लोकप्रिय साहित्य, अभिजात साहित्य आणि श्रेष्ठ साहित्य यातील सीमारेषांचा करणे.
४. मराठीतील लोकप्रिय साहित्याचा परिचय करून घेणे.

उपयोजन

१. लोकप्रिय साहित्य या संकल्पनेविषयी गैरसमज दूर होतील.
२. लोकप्रिय आणि बाजारू यातील अंतर लक्षात येईल.
३. श्रेष्ठ अभिजात साहित्याची लोकप्रियता आणि तिचे निराळेपण समजून येईल.
४. मराठी समाजाच्या अभिरुचीचे आकलन होईल.

अभ्यासघटक

१. लोकप्रिय साहित्य : संकल्पना व बदलते स्वरूप
२. लोकप्रियता : अभिजात साहित्य, श्रेष्ठ साहित्य, कलात्मक साहित्य आणि बाजार
३. वाचकांच्या अभिरुचीचा दबाव, प्रकाशकांची मागणी, प्रसार माध्यमांची अंगभूत वैशिष्ट्ये आणि साहित्याची निर्मिती प्रक्रिया

४. मराठी लोकप्रिय साहित्याची परंपरा व लोकप्रिय साहित्याचे प्रकार
५. पुढील साहित्यकृतींचा अभ्यास अपेक्षित आहे
- अ. फकिरा – अण्णा भाऊ साठे
- आ. बटाट्याची चाळ – पु. ल. देशपांडे
- इ. तुझे गीत गाण्यासाठी – मंगेश पाडगावकर
- ई. इडली, ऑर्किड आणि मी – विठ्ठल कामत

संदर्भ ग्रंथ

- साहित्याचा अवकाश – नागनाथ कोत्तापल्ले
कादंबरी आणि मराठी कादंबरी – उषा हस्तक
टीकास्वयंवर – भालचंद्र नेमाडे
धार आणि काठ – नरहर कुरुंदकर
मराठी कथेची स्थितीगती – अंजली सोमण
अण्णा भाऊंचे कादंबरीविश्व – प्रमोद गारोडे



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड
एम.ए. प्रथम वर्ष अभ्यासक्रम
जून २०१९ पासून
सत्र - पहिले
अभ्यासपत्रिका ४.२ (ऐच्छिक)
भाषांतरविद्या

उद्दिष्टे

१. मराठीशिवाय अन्य भाषेतील साहित्याची ओळख करून देणे.
२. साहित्याविषयीचा तौलनिक दृष्टीकोण निर्माण करण्यास मदत करणे.
३. भाषेच्या वैशिष्ट्यांचा परिचय करून घेणे.
४. मुळ लेखकाचे भाषेतील स्थान, वैशिष्ट्यांचा अभ्यास करणे.

उपयोजन

१. अन्य भारतीय भाषेतील साहित्याचा तसेच जागतिक वाङ्मयाचा परिचय होईल.
२. कलाकृतीचे श्रेष्ठत्व कसे निर्धारित होते याविषयी आकलन होण्यास मदत होईल.
३. अन्य भाषेतील साहित्य भाषेमुळे कसे भिन्न होत जाते हे कळून येईल.
४. इतर भाषेतील साहित्यांच्या कलाकृतीशी थेट परिचय होईल.
५. संस्कृती समन्वयात भाषांतराचे स्थान व महत्त्व लक्षात येईल.

अभ्यास घटक

१. भाषांतर : संकल्पना
२. भाषांतराचे प्रकार – अनुवाद, स्वैर, रूपांतर, आधारित, लिप्यंतर, अर्वाचीनीकरण

३. ललित आणि ललितेतर साहित्याचे भाषांतर.
४. भाषांतरकार : जबाबदारी, पूर्वतयारी, आवश्यक गुण, शैली इ.
५. भाषांतरीत मराठी साहित्य.
६. अभ्यासासाठी नेमलेल्या भाषांतरीत साहित्यकृती
 - अ. अन्य राष्ट्रातील साहित्याचे मराठी अनुवाद
 १. मोरनामा आणि इतर कथा – इंतजार हुसेन – अनुवाद: भास्कर लक्ष्मण भोळे, साहित्य अकादमी, नवी दिल्ली.
 २. होय, तेव्हाही गाणं असेल! – बर्टोल्ट ब्रेख्त – अनुवाद: विद्या सुर्वे बोरसे, अथर्व पब्लिकेशन्स, जळगाव
 - आ. अन्य भारतीय भाषेतील साहित्याचे मराठी अनुवाद
 १. पिवळ्याधम्मक छत्रीतली मुलगी – उदय प्रकाश – अनुवाद: गणेश विसपुते, लोकवाड्य गृह, मुंबई
 २. भिंतीत एक खिडकी असायची – विनोदकुमार शुक्ल – अनुवाद: निशिकांत ठकार, साहित्य अकादमी, नवी दिल्ली

संदर्भ ग्रंथ

भाषांतर – सदा क-हाडे

भाषांतर मीमांसा – (संपा.) कल्याण काळे, अंजली सोमण

साहित्यसेतू – एल. एस. देशपांडे

अनुवाद, वर्णव्यवस्था आणि मी – सूर्यनारायण रणसुभे

देशीवाण – चंद्रकांत बांदिवडेकर

अक्षरांचा श्रम केला – विलास सारंग



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड
एम.ए. प्रथम वर्ष अभ्यासक्रम
जून २०१९ पासून
सत्र - दुसरे
अभ्यासपत्रिका ५ (अनिवार्य)
स्वातंत्र्योत्तर काळातील मराठी वाङ्मयाचा इतिहास
(इ. स. १९४७ ते इ. स. २०१०)

उद्दिष्टे.

१. मराठी साहित्याचा अभ्यास करण्यासाठी अभिरुची निर्माण करणे.
२. आधुनिक मराठी वाङ्मयाच्या इतिहासातील परंपरा समजून घेणे.
३. स्वातंत्र्योत्तर मराठी वाङ्मयाची वाटचाल अभ्यास करणे.
४. विविध वाङ्मय प्रवाहांचा उदय आणि विकास कसा झाला याचा मागोवा घेणे.
५. स्वातंत्र्योत्तर वाङ्मयीन चळवळींचे प्रभाव साहित्यामध्ये कसे पडले आहेत, याचा शोध घेणे.
६. स्वातंत्र्योत्तर मराठी साहित्यावरील प्रभावांची उकल करणे, परभाषीय साहित्याच्या संपर्कातून मराठी साहित्यात कोणती स्थित्यंतरे घडली, याबद्दल साहित्यिक आणि साहित्यकृती यांचे अवलोकन करणे.
७. मराठी भाषा आणि साहित्य यांच्या कालसुसंगत कसे अनुबंध आहेत, यांचे विवेचन करणे.

उपयोगिता

१. मराठी पदव्युत्तर अभ्यासक्रम पूर्ण करताना प्रगल्भ व्यक्तिमत्त्व निर्माण होण्यासाठी मदत..
२. स्पर्धा परीक्षांच्या तयारीसाठी मराठी वाङ्मयाचा अभ्यास उपयुक्त आहे.
३. स्वातंत्र्यपूर्वकालीन सांस्कृतिक, वाङ्मयीन व ऐतिहासिक पाश्चवभूमीचे आकलन.
४. आधुनिक काळातील मराठी वाङ्मयीन वारसा जतन करणे.
५. मराठी लेखनातील ठळक प्रवृत्ती, ग्रंथकार आणि साहित्यकृती या अनुषंगाने साहित्याचा अभ्यास करणे.

अभ्यास घटक

१. स्वातंत्र्योत्तर ते २०१० या कालखंडातील स्थित्यंतराच्या पार्श्वभूमीवर साहित्य निर्मितीच्या प्रेरणा समजून घेणे.
२. प्रस्तुत कालावधीतील सांस्कृतिक आणि वाङ्मयीन पार्श्वभूमी, मराठी साहित्यातील प्रेरणा, प्रवृत्ती, प्रवाह आणि वाङ्मयीन चळवळी, प्रसारमाध्यमे आणि वाङ्मय प्रकारांचा विकास, नववर्गाची निर्मिती आणि नवसाहित्य, साठोत्तरी, ऐंशी नंतरचे, आणि जागतिकीकरणानंतरचे साहित्य यांचा परिचय, शासकीय पातळीवरून साहित्य निर्मितीचे प्रयत्न इ. घटकांचा अभ्यास करणे अभिप्रेत आहे.
३. अभ्यास परिपूर्ण होण्यासाठी पुढील वाङ्मयप्रकारनिहाय अभ्यास.....
 - अ. नाटक,
 - आ. कविता,
 - इ. कथा,
 - ई. कादंबरी,
 - उ. ललितगद्य (चरित्र, आत्मचरित्र)

संदर्भ ग्रंथ

प्रदक्षिणा – कॉन्टीनेन्टल प्रकाशन, पुणे
मराठी साहित्याचा सांस्कृतिक संदर्भ – रा. ग. जाधव
साहित्य आणि विद्रोह – (संपा) पृथ्वीराज तौर
राजकीय चळवळ आणि मराठी नाट्यसृष्टी – शनवारे
संक्षिप्त मराठी वाङ्मयाकोश – वसंत आबाजी डहाके
मराठी साहित्य : इतिहास आणि संस्कृती – वसंत आबाजी डहाके
साहित्याचा अवकाश – नागनाथ कोत्तापल्ले
साहित्य आणि सांस्कृतिक संवेदन – प्रभाकर बागले
प्रादेशिक कादंबरी – भास्कर शेळके
मराठी कादंबरी : चर्चा आणि चिंतन – चंद्रकांत बांदिवडेकर
ग्रामीण साहित्य आणि ग्रामीण कादंबरीचे स्वरूप – विठ्ठल जंबाले



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड
एम.ए. प्रथम वर्ष अभ्यासक्रम
जून २०१९ पासून
सत्र - दुसरे
अभ्यासपत्रिका ६ (अनिवार्य)
वर्णनात्मक भाषाविज्ञान

उद्दिष्टे

१. भाषेच्या संरचनेचा अभ्यास करणे.
२. विसाव्या शतकातील भाषाविज्ञानाच्या संकल्पनांचा परिचय करवून घेणे.
३. भाषेच्या एककालिक अभ्यासाची तत्वे समजून घेणे.
४. मराठी भाषेच्या व्यवस्थेचे आकलन करून घेणे.

उपयोगिता

१. भाषेच्या अंतःसूत्रांशी परिचय होईल.
२. मराठी भाषेचे सूक्ष्म आकलन होईल.
३. भाषाविज्ञानातील जागतिक संकल्पनांशी ओळख होईल.
४. भाषाअभ्यासाचा नवा दृष्टीकोन विकसित होईल.

अभ्यासघटक

१. स्वनविचार
२. मराठीची स्वनिमव्यवस्था
३. रुपिमविचार
४. वाक्यविचार
५. अर्थविचार

संदर्भ ग्रंथ

सुलभ भाषाविज्ञान – द. दि. पुंडे

वर्णनात्मक भाषाविज्ञान – लीला गोविलकर

भाषाविज्ञान: वर्णनात्मक आणि ऐतिहासिक – (संपा) स. गं. मालशे, हे. वि. इनामदार, अंजली सोमण

भाषाविज्ञान परिचय – स. गं. मालशे, द. दि. पुंडे, अंजली सोमण

अभिनव भाषाविज्ञान – गं. ना. जोगळेकर

भाषा आणि भाषाविज्ञान – रमेश धोंगडे



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड
एम.ए. प्रथम वर्ष अभ्यासक्रम
जून २०१९ पासून
सत्र - दुसरे
अभ्यासपत्रिका ७.१ (ऐच्छिक)
वाङ्मयप्रकारांचा अभ्यास: कविता आणि नाटक

उद्दिष्टे

१. वाङ्मयप्रकारांची संकल्पना अभ्यासणे.
२. साहित्यातील नाट्यात्म आणि काव्यात्म घटकांचा विशेष अभ्यास करणे.
३. मराठीतील निवडक साहित्यकृतींचा अभ्यास करणे.
४. मराठी नाटक आणि कविता यांच्या वाटचालीतील महत्वाच्या टप्प्यांचा अभ्यास करणे.

उपयोगिता

१. नाटक आणि कविता या वाङ्मयप्रकाराची वैशिष्ट्ये लक्षात येतील.
२. मराठीतील विशिष्ट वाङ्मयप्रकारांची वाटचाल, योगदान व वेगळेपण समजून येईल.
३. विशिष्ट कलाकृतीचे वाङ्मयेतिहासातील स्थान कसे निश्चित होते ते समजून येईल.
४. निवडक कलाकृतींचा सूक्ष्म पातळीवरील अभ्यास करता येईल.

अभ्यासघटक

१. साहित्यप्रकार: संकल्पना
२. कवितेची संकल्पना. महाकाव्य, खंडकाव्य, दीर्घ कविता, भावकविता (अभंग, ओवी, लावणी, पोवाडा) यांची सैद्धांतिक ओळख.
३. नाटक आणि रंगभूमी: अनुबंध

४. नाटक: संकल्पना. सुखात्मिका, शोकांतिका, महानाट्य, एकांकिका, पथनाट्य, रिंगणनाट्य यांची सैद्धांतिक ओळख.

पुढील साहित्यकृतींचा अभ्यास करावयाचा आहे.

अ. कविता

१. सनद – नारायण सुर्वे
२. धग असतेच आसपास – कल्पना दुधाळ

आ. नाटक

१. नटसम्राट – वि. वा. शिरवाडकर
२. सुसाट – अजित देशमुख

संदर्भ ग्रंथ

रूपबंध कला समीक्षा - एस. डी. इनामदार

साहित्य आणि अस्तित्वाभान – दिलीप पुरुषोत्तम चित्रे

साहित्य आणि सामाजिक संदर्भ – रा. ग. जाधव

मिथक आणि नाटक – तारा भवाळकर

साहित्याचे सामाजिक व सांस्कृतिक अनुबंध – म. सु. पाटील

काही वाङ्मयाप्रकार : शोध आणि स्वरूप – वसंत जोशी

साहित्यविमर्श – रमेश वरखेडे

मराठी साहित्य : प्रेरणा व स्वरूप – (संपा) गो. मा. पवार, म. द. हातकणंगलेकर

‘सुर्वे’ नारायण सुर्वे यांच्या समग्र कविता – दिगंबर पाध्ये

महाकाव्य : स्वरूप व समीक्षा – द. भि. कुलकर्णी



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

एम.ए. प्रथम वर्ष अभ्यासक्रम

जून २०१९ पासून

सत्र - दुसरे

अभ्यासपत्रिका ७.२ (ऐच्छिक)

भाषाव्यवहार आणि उपयोजन

उद्दिष्टे

१. समाजव्यवहाराचे माध्यम म्हणून भाषेचा परिचय करून घेणे.
२. भाषाव्यवहाराचे स्वरूप समजून घेणे.
३. भाषिक संवादाचे प्रत्यक्ष व्यवहारातील उपयोजन लक्षात घेणे.
४. भाषेचा सर्जनशील उपयोग लक्षात घेणे

उपयोगिता

१. भाषेच्या स्वरूपाचे आकलन होईल.
२. भाषिकक्षमतांची जाणिव होईल.
३. भाषाव्यवहाराचे स्वरूप लक्षात येईल.
४. सर्जनशील लेखनास सहाय्य होईल.
५. वाचनाचा व्यावहारिक उपयोग लक्षात येईल.

अभ्यासघटक

१. भाषेचे स्वरूप.
२. मराठी भाषाव्यवहाराचे स्वरूप.
३. भाषेची संवादात्मकता आणि उपयोजन.
४. भाषेची सर्जनशीलता आणि उपयोजन.
५. वाचन: विशेष आणि उपयोजन.
६. मराठीचे लेखनविषयक नियम.

संदर्भ ग्रंथ

व्यावहारिक मराठी – ल. रा. नसिराबादकर

मराठी भाषाव्यवहार आणि उपयोजन – डॉ. सुनिता सांगोले

मराठी भाषिक कौशल्ये विकास – (संपा) डॉ. पृथ्वीराज तौर

मराठी लोकनागरी – पुष्पा फडके

मराठी शब्दलेखनकोश – प्रा. यास्मिन शेख

भाषाचिंतन – केशव सखाराम देशमुख

वक्तृत्व आणि संभाषण कौशल्य – डॉ. श्रुती वडगबाळकर



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड
एम.ए. प्रथम वर्ष अभ्यासक्रम
जून २०१९ पासून
सत्र - दुसरे
अभ्यासपत्रिका ८.१ (ऐच्छिक)
सामाजिक दृष्टिकोनातून साहित्याचा अभ्यास

उद्दिष्टे

१. साहित्य आणि समाज यांचा अनुबंध स्पष्ट करणे.
२. समाजातील घडामोडींचा साहित्यावर पडणारा प्रभाव अभ्यासणे.
३. लेखकाच्या वाङ्मयीन व्यक्तिमत्वाची जडण घडण समजून घेणे.
४. साहित्यकृतीचे सामाजिक अंगाने विश्लेषण करणे.

उपयोजन

१. साहित्याकडे पाहण्याची सामाजिक दृष्टी विकसित होईल.
२. विविध वाङ्मयीन सैद्धांतिक वादांचा, तात्विक संकल्पनांचा अभ्यास होईल.
३. साहित्यकृतीची समीक्षा करण्याची नवी भूमिका विकसित होईल.
४. मराठी समाज आणि मराठी साहित्य यांचे अंतःसंबंध आकलन होतील.

अभ्यासघटक

१. साहित्य आणि समाज : परस्पर संबंध
२. सामाजिक दृष्टिकोनातून साहित्याचा अभ्यास : हेतू, स्वरूप आणि व्याप्ती
३. सामाजिक चळवळींचा साहित्यावरील प्रभाव
४. गांधीवाद, मार्क्सवाद, आंबेडकरवाद, स्त्रीवाद आणि मराठी साहित्य
५. लेखकाचे व्यक्तिमत्व : जडणघडण आणि सामाजिक पर्यावरण
६. वाचकांची अभिरुची प्रकाशन व्यवहार, प्रसिद्धी माध्यमे आणि वाङ्मयरूपे

संदर्भ ग्रंथ

साहित्य आणि समाज - (संपा) नागनाथ कोत्तापल्ले व इतर

साहित्य आणि सामाजिक संदर्भ – रा. ग. जाधव

साहित्य आणि समाज – सदा क-हाडे

संत वाङ्मयाची सामाजिक फलश्रुती – गं. बा. सरदार

साहित्य आणि सामाजिक संदर्भ – अंजली सोमण

साहित्य, समाज आणि संस्कृती – दिगंबर पाध्ये

साहित्याचा अवकाश – नागनाथ कोत्तापल्ले

जीवन आणि साहित्य – शरच्चंद्र मुक्तीबोध

पर्यावरणीय प्रबोधन आणि साहित्य – रा. ग. जाधव

साहित्यकारण - पृथ्वीराज तौर

मराठी साहित्याचे समकालीन संदर्भ – विनायक येवले



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

एम.ए. प्रथम वर्ष अभ्यासक्रम

जून २०१९ पासून

सत्र - दुसरे

अभ्यासपत्रिका ८.२ (ऐच्छिक)

मराठी बाल-कुमार साहित्य

उद्दिष्टे

१. बालसाहित्य या संकल्पनेची ओळख करून घेणे
२. प्रौढ साहित्य आणि बालसाहित्य यातील भेद समजून घेणे
३. मराठी आणि जागतिक भाषेतील प्रमुख बालसाहित्यकृतींचा स्थूल परिचय करून घेणे
४. बालकांचे मानसशास्त्र समजून घेणे
५. बालसाहित्य आणि इतर कलाप्रकारांचा अनुबंध लक्षात घेणे

उपयोजन

१. बालसाहित्य आणि कुमार साहित्य या संकल्पनेची ओळख होईल.
२. बालसाहित्याचे निराळेपण आणि शक्तिस्थाने यांचे आकलन होईल.
३. बालसाहित्याचे महत्व लक्षात येईल.
४. मुलांच्या भाषेची वैशिष्ट्ये आणि प्रत्यक्ष बालसाहित्य यांची सांगड घालता येईल.
५. बालहक्क, बालकांचे अधिकार, बालकासंबंधीचे कायदे, बालमानसशास्त्र याविषयी नवे भान येईल.

अभ्यास घटक

१. बालसाहित्य : संकल्पना, स्वरूप आणि प्रयोजनविचार
२. बालसाहित्य आणि प्रौढसाहित्य यातील भेद आणि सामर्थ्यस्थळे
३. बालसाहित्याचे वयोगटाप्रमाणे वर्गीकरण – शिशु, बाल, कुमार.
४. मराठी बालसाहित्याचे स्वरूप व वाटचाल
५. मुलांची नियतकालिके आणि बालकुमार साहित्य संमेलने
६. पुढील साहित्यकृतींचा अभ्यास अपेक्षित आहे.

- अ. कवितासंग्रह – रानफुले – सुरेश सावंत – संगत प्रकाशन, नांदेड
आ. कथासंग्रह – आगळ्या वेगळ्या गोष्टी – सूर्यकांत सराफ – शब्दामृत
प्रकाशन, औरंगाबाद
इ. नाटक – चल रे भोपळ्या / हंडाभर मोहरा – भारत सासणे – मॅजेस्टिक
प्रकाशन, मुंबई
ई. कादंबरी – खारीच्या वाटा – ल. म. कडू – राजहंस प्रकाशन, पुणे

संदर्भ ग्रंथ

- बालवाङ्मय – देविदास बागुल
बालसाहित्याची रूपरेखा – मालती दांडेकर
मराठी बालसाहित्य: प्रवाह आणि प्रतिक्रिया – लीलावती भागवत
मराठी बालसाहित्य: सृजन, दायित्व आणि प्रसार – विश्वास वसेकर
बालसाहित्य : आकलन आणि समीक्षा – विद्या सुर्वे बोरसे
बालकुमार साहित्य : आशय आणि लयतत्व – महावीर जोधळे
बालशिक्षण, बालसाहित्य: विविध आयाम – (संपा) मंदा खांडगे, लीला दीक्षित
उद्गार – गो. वि. करंदीकर
बालसाहित्याचे अंतरंग – रजनी हिरळीकर

प्रश्नपत्रिकेचे स्वरूप : सर्व अभ्यासपत्रिकांसाठी

अभ्यासपत्रिका एकूण 100 गुणांसाठी आहेत.

सत्रांत परीक्षा – 75 गुणांसाठी + 25 गुण अंतर्गत मूल्यमापनासाठी असतील.

सत्रांत परीक्षेचे खालील स्वरूप असेल

प्र. 1 ला पर्यायी दीर्घोत्तरी प्रश्न 20 गुण

प्र. 2 रा पर्यायी दीर्घोत्तरी प्रश्न 20 गुण

प्र. 3 रा पर्यायी दीर्घोत्तरी प्रश्न 20 गुण

प्र. 4 था टीपा द्या (पाचपैकी तीन) 15 गुण

एकूण 75 गुण

अंतर्गत मूल्यमापन : 25 गुण

दोन घटक चाचणी 10 गुण (5+5)

सेमिनार 05 गुण

गृहकार्य 10 गुण

एकूण गुण 25

**Swami Ramanand Teerth Marathwada
University, Nanded**

**SYLLABUS
M.A. ENGLISH
I (Modified) and II Year (Revised)**

With Effect from June 2014

Syllabus of M.A. First Year SEMESTERS I & II (Modified)

SEM I	SEM II
Paper 1 : The English Language	Paper 5: Basics of Linguistics
Paper 2: History of English Literature	Paper 6: British Literature from Romantic Age to Contemporary Times
Paper3: British Literature from Chaucer to Augustan Age	Paper 7: Indian English Writing
Paper 4 (Elective A): Classical and Medieval European Literature	Paper 8 (Elective A): Modern European Literature
Paper 4 (Elective B): Masterpieces of World Literature: Ancient and Medieval Age	Paper 8 (Elective B):Masterpieces of World Literature: Modern period

Syllabus of M.A. Second Year SEMESTERS III & IV

SEM III	SEM IV
Paper 9 : Indian Poetics	Paper 13: Advanced Critical Theory
Paper 10: English Language and Literature Teaching	Paper 14: Indian Literature in English Translation
Paper11: American Literature	Paper 15: New English Literatures
Paper 12 (Elective A): Popular Literature	Paper 16 (Elective A): Cultural Studies
Paper 12 (Elective B): Discourse Analysis	Paper 16 (Elective B): Special Authors G.B.Shaw and R.K.Narayan
Paper 12(Elective C): Subaltern Literature	Paper 16 (Elective C) Cinematic Representations of Literature

Syllabus of M.A. First Year SEMESTERS I AND II

(Modified With effect from June 2014)

SEM I	SEM II
Paper 1 : The English Language	Paper 5: Basics of Linguistics
Paper 2: History of English Literature	Paper 6: British Literature from Romantic Age to Contemporary Times
Paper3: British Literature from Chaucer to Augastan Age	Paper 7: Indian English Writing
Paper 4 (Elective A): Classical and Medieval European Literature	Paper 8 (Elective A): Modern European Literature
Paper 4 (Elective B): Masterpieces of World Literature: Ancient and Medieval Age	Paper 8 (Elective B):Masterpieces of World Literature: Modern period

Paper 1: The English Language

Rationale

This course has been designed with multiple objectives regarding the acquaintance of the students with the facts and features of the English Language. The main objectives are a) to give the student an adequate knowledge of the history of the English Language through a diachronic study of the language tracing its development from the time of the earliest records in the language to the present day. b) to make the student understand the historical and sociological factors involved in the growth and evolution of a language with particular reference to the political and social changes which have made a lasting impact on the English Language. c) to trace the numerous changes which have taken place in the English Language from the old and Middle English periods till the modern period, phonological changes, changes in spelling, morphological and syntactical changes and semantic changes. d) to draw the attention of the student to the way in which the English Language has grown and matured through the contributions of the great markers of English like Shakespeare, Spenser, Milton and Johnson who have enriched the language by their indigenous exploitation of the resources of the language. e) to make the student understand the growth and development of global English and the emergence of new registers, new dialects, creoles, pidgins and new varieties of English in countries outside England. f) to enable the student to linguistically analyse modern English from Saussurian and Chomskian perspective.

Course Contents

Unit 1. A Brief History of English Language

- a) Definition of Language, Definition of Communication, Types of Communication, Animal And Human Communication, Other types of Communication, Characteristics Of Human Language, Levels of Linguistic Analysis: Phonological, Morphological, Lexical, Syntactic and Semantic and pragmatic analysis
- b) Indo- European Family of Language, the Teutonic Languages, Grimm’s Law, Verner’s Law

Unit 2:

- a) Old English dialects, Characteristics of Old English, Old English Spelling, Vocabulary, Grammar, Pronunciation
- b) Middle English dialects, Characteristics of Middle English, Middle English Spelling, Vocabulary, Grammar, Pronunciation

Unit 3:

- a) Modern English dialects, Characteristics of Modern English, Modern

English Spelling, Vocabulary, Grammar, Pronunciation

b) Varieties of English Language: International varieties of English, Social varieties of English, Pidgins and creoles, Dialects, Registers, Style, Formal and Informal English, Code Switching and Code Mixing

Unit 4:

a) Foreign Influences: Latin influence, Greek influence, Celtic influence, Scandinavian influence, French influence, Indian and American Loan words

b) The Makers of English: The Bible, Chaucer, Spenser, Shakespeare, Milton

Unit 5: Looking at data of Modern English Structure:

a) Structuralism-Saussure, Bloomfield, Sapir, Whorf,

b) Chomskian Approach – Transformational Generative Grammar and Phrase Structure Rules

Prescribed Texts:

Bradley ,H.. *The Making of English*, Macmillan & Co , 1927

Baugh ,A.C.. *A History of English Language*, Allied Publishers,1997

Jespersen ,Otto. *Growth and Structure of the English Language* ,B. G. Teubner, 1926

Potter ,Simeon. *Our Language*, Penguin Books, 1957

Pyles ,Thomas. *The Origins and Development of English Language* ,Harcourt Brace Jovanovich College, 1993

Williams,Joseph M : *Origins of the English Language*, Free Press, 1986

Recommended Reading

Asher, R. E. (ed.). *The Encyclopedia of Language and Linguistics*. Oxford: Pergamon Press. 1994.

Bauer, Laurie. *English Word-Formation*. Cambridge Textbooks in Linguistics.Cambridge: Cambridge University Press, 2002.

Biber, Douglas, Stig Johansson, Geoffrey Leech, Susan Conrad and Edward Finegan. *Longman Grammar of Spoken and Written English*. Harlow: Longman, 1999.

Brinton, Laurel J.The Structure of Modern English : A Linguistic Introduction .Amsterdam:John Benjamins,2000.

Clark, John and Colin Yallop. *An Introduction to Phonetics and Phonology*. 2nd ed. Oxford: Blackwell, 1995.

Collinge, N. E. (ed.). *An Encyclopedia of Language*. London: Routledge, 1990.

Croft, William. *Explaining Language Change: An Evolutionary Approach*. Harlow: Longman, 2000.

Cook, Vivian and Mark Newson. *Chomsky's Universal Grammar: An Introduction*. 2nd ed. Oxford: Blackwell, 1996.

Crystal, David. *The Cambridge Encyclopedia of the English Language*. 2nd ed. Cambridge: Cambridge University Press, 2003.

Finegan, Edward. *Language: Its Structure and Use*. 4th ed. Boston, MA: Wadsworth, 2004.

- Gelderen, Elly van. *A History of the English Language*, Amsterdam: John Benjamins, 2006.
- Greenbaum, Sidney and Randolph Quirk. *A Student's Grammar of the English Language*. Harlow: Longman, 1990.
- Halliday, M. A. K. *An Introduction to Functional Grammar*. 3rd ed. London: Arnold, 2004.
- Leech, Geoffrey and Jan Svartvik. *A Communicative Grammar of English*. 2nd ed. London: Longman, 1994.
- Mc Arthur, Tom eds. *The Oxford Companion to the English Language*, Oxford: OUP, 1992.
- Ouhalla, Jamal. *Introducing Transformational Grammar: From Principles and Parameters to Minimalism*. London: Arnold, 1999.
- Radford, Andrew. *English Syntax: An Introduction*. Cambridge: Cambridge University Press, 2004.
- Wood, F.T. *An Outline History of the English Language*, New Delhi: Macmillan, 2000.
- Yule, George. *The Study of Language: An Introduction*. 2nd ed. Cambridge: Cambridge University Press, 1996.

Web Resources

- www.bbc.co.uk/worldservice/learningenglish
learnenglish.britishcouncil.org
www.englishclub.com/english-language-history
www.usingenglish.com
www.elearnenglishlanguage.com
www.lcl.ed.ac.uk
www.scientificpsychic.com/linguistics.htm
<http://www.vtstutorials.co.uk/tutorial/english/>

Question Paper Pattern

Q.1	An essay type question on Unit 1 with internal choice	16
Q.2	An essay type question on Unit 2 with internal choice	16
Q.3	An essay type question on Unit 3 with internal choice	16
Q.4	An essay type question on Unit 4 with internal choice	16
Q.5	An essay type question on Unit 5 with internal choice	16

Paper 2: History of English Literature

Rationale

The main objective of this course are a) to give the student an adequate knowledge of the history of the English Literature b)to make the student understand the historical and sociological factors involved in the growth and evolution of English Literature with particular reference to the political and social changes which have made a lasting impact on the English Language/ c)to enable the student understand the various periods of English Literature. d) to enable the student understand the Modern Literary Movements and Trends related to English Literature. e) to interpret literary genres and appreciate literature.

Course Contents

Unit 1:

- a) Old English Period (7th Century- 1066) & Middle English Period (1066 – 1400)- Chaucer & Chaucerian Alliterative Revival
- b) Mystery, Miracle, Morality plays The English Renaissance, Reformation, Humanism

Unit 2:

- a) Elizabethan Poetry and Elizabethan Prose
- b) Elizabethan Drama: University Wits, Senecan Tragedies, Shakespearean Tradition

Unit 3:

- a) Jacobean Poetry (Metaphysical & Cavalier Poetry), Jacobean Prose (Milton), and Jacobean Drama
- c) Restoration Drama: Comedy, Heroic Play & Tragedy; Restoration Prose and Poetry

Unit 4:

- a) Augustan Period(Satires, Travelogues, Prose ,the Periodical , Graveyard Poets), The rise of the Novel, Age of Johnson
- b) Major features of the Romantic Revival, Romantic Prose & Poetry

Unit 5:

- a) Victorian Poetry, Drama, Novel & Prose
- b) 20th Century Literature: Georgian Poets, Trench Poets, Angry Young Men, Kitchen – Sink drama, British Poetry Revival

Recommended Reading:

Bruce Mitchell, *A Guide to Old English*. Sixth Edition. Massachusetts. Blackwell Publishers, 2001.

- Carter, Ronald & MacRae, John. *The Routledge History of English Literature in English: Britain and Ireland*, New York. Routledge 1997.
- Gardner, Helen *The Metaphysical Poets* Penguin Books, 1957.
- Gassner, John; Quinn, Edward (1969). "England: middle ages". *The Reader's Encyclopedia of World Drama*. London: Methuen 2000.
- Graham Law, *Serializing Fiction in the Victorian Press*. New York: Palgrave, 2000.
- Henry Mayr-Harting, *The Coming of Christianity to Anglo-Saxon England*. Pennsylvania: University Press Pennsylvania, 1992.
- *The English Alliterative Tradition*. University of Pennsylvania Press. 1991
- Hieatt, A. Kent (1983). *Beowulf and Other Old English Poems*. New York: Bantam Books 1999.
- Mikics, David . *A New Handbook of Literary Terms*. New Haven, CT: Yale University Press, 2007.
- Rupert Christiansen. *Romantic Affinities: Portraits From an Age, 1780–1830*. London: Bodley Head, 1988.
- Sanders ,Andrew. *The Short Oxford History of English Literature*, Oxford: Clarendon Press, 1994.
- Stanley Brian Greenfield, *A New Critical History of Old English Literature*. New York: New York University Press, 1986.
- William ,Harmon and C. Hugh Holman, *A Handbook to Literature*. (Upper Saddle River, New Jersey: Prentice Hall, 1986

Web Resources:

- www.readcentral.com/...English-Literature
- global.oup.com/academic/.../o/oxford-history-of-english-literature-ohel/
- www.bartleby.com/cambridge/
- www.britannica.com/EBchecked/topic/.../History-of-English-Literature
- www.angelfire.com/darkside/sjhscult/notes/unit2/eng_lit.htm
- European lit classical and medie*
- <http://guides.main.library.emory.edu/content.php?pid=378716&sid=3162995>
- worldwidegreek om*
- web.cn.edu/kwheeler/resource_lit.classics.html
- exhibitions.slv.vic.gov.au/love-and.../european.../european-literature
- www.bigeye.com/liteur20.htm

Question Paper Pattern

- | | | |
|-----|---|----|
| Q.1 | An essay type question on Unit 1 with internal choice | 16 |
| Q.2 | An essay type question on Unit 2 with internal choice | 16 |
| Q.3 | An essay type question on Unit 3 with internal choice | 16 |
| Q.4 | An essay type question on Unit 4 with internal choice | 16 |
| Q.5 | An essay type question on Unit 5 with internal choice | 16 |

Paper 3: British Literature from Chaucer to Augustan Age

Rationale

British literature in modern English language started developing from the age of Geoffrey Chaucer. The present course attempts to cover major literary works starting from the Chaucerian period up to the Augustan Age. Effort has been made to include most of the literary works belonging to different genres so that the learner gets a fair idea of the literature from the later middle ages, Elizabethan, Jacobean, Caroline, Commonwealth, Restoration, Neo-classical and the Augustan eras. The study of British Literature being an essential part of any English literature course has thus been prescribed to cover the time period roughly up to the end of the eighteenth century.

Course Contents

Unit 1:

- a) Canterbury Tales: *The Knight's Tale*
- b) Marlowe: *The Jew of Malta*

Unit 2:

- a) Ben Jonson: *The Alchemist*
- b) William Congreve: *Love for Love*

Unit 3:

- a) Francis Bacon: *The New Organon*
- b) John Milton: *Samson Agonist*

Unit 4:

- a) John Dryden: *Absalom and Achitophel*
- b) Alexander Pope: *The Dunciad*

Unit 5:

- a) Jonathan Swift: *Gulliver's Travels* (Part I & II)
- b) Oliver Goldsmith: *The Vicar of the Wakefield*

Recommended Reading

Achinstein, Sharon. "Samson Agonistes" in *A Companion to Milton*. Ed. Thomas Corns. Oxford: Blackwell Publishing, 2003.

Black, Joseph, ed. *The Norton Anthology of English Literature, Volume C*. New York: W. W. Norton, 2006.

British Identities and English Renaissance Literature. Cambridge: Cambridge University Press. 2002.

Cantor, Norman F., and Peter L. Klein. *Seventeenth-Century Rationalism: Bacon and Descartes*. Massachusetts: Blaisdell, 1969.

Chambers, E. K. *The Elizabethan Stage*. 4 Volumes, Oxford, Clarendon Press, 1923.

Craig, D. H. *Ben Jonson: The Critical Heritage*. London: Routledge, 1999.

Drabble, Margaret *The Oxford Companion to English Literature*. Oxford: Oxford University Press, 1996.

Fulk, R. D. and Christopher M. Cain, *A History of Old English Literature*. Malden: Blackwell, 2003.

Harmon, William and C. Hugh Holman, *A Handbook to Literature*. Uper Saddle River, NJ: Prentice Hall, 1986.

Maxwell, Richard and Katie Trumpener, eds., *The Cambridge Companion to Fiction in the Romantic Period* 2008.

Web resources

www.bardweb.net/england.html

elizabethan.org/sites.html

http://www2.bakersfieldcollege.edu/english/Recommended/literature_sites_for_students.htm

www.spartacus.schoolnet.co.uk/REVenglish.htm

<http://andromeda.rutgers.edu/~jlynch/Lit/>

<http://vos.ucsb.edu/browse.asp?id=3>

<http://digital.library.upenn.edu/books/>

<http://etext.lib.virginia.edu/collections/languages/english/>

Question Paper Pattern

Q.1	An essay type question on Unit 1 with internal choice	16
Q.2	An essay type question on Unit 2 with internal choice	16
Q.3	An essay type question on Unit 3 with internal choice	16
Q.4	An essay type question on Unit 4 with internal choice	16
Q.5	An essay type question on Unit 5 with internal choice	16

Paper 4 A. (Elective): Classical and Medieval European Literature

Rationale

The European continent has been at the forefront of literary and philosophical productivity since the time of the great Greek and Roman civilizations. Much of the modern literature, both in the European countries as well as in the cultures of other continents, still exhibit a deep influence of Classical European literature. This paper has the texts from the Classical period and the Medieval period for study along with brief survey of major historical and literary events. This is the first half of the course on European literature, aiming to acquaint the student with the initial and middle stages of the development of the European canon.

Course Contents

Unit 1: Historical background

- a) Ancient Greece, the Rise and decline of Roman Empire, Migration period , Byzantium, Feudal Christendom, Holy Wars, Classical Greek Literature (Poetry, Drama, Philosophy)
- b) Latin Literature (The Golden Age, Silver Age), The Vernacular Literature: Religious Writing, Arthurian Romances, Sagas

Unit 2:

- a) Homer: *Odyssey* (Book X , XI)
- b) Sophocles: *Electra*

Unit 3:

- a) Aeschylus: *Agamemnon*
- b) Plato: *Lysis*

Unit 4:

- a) Seneca: *Daughters of Troy/ Trojan Women*
- b) Terence: *The Self Tormentor (Heauton Timorumenos)*

Unit 5:

- a) Dante Alighieri: *Inferno*
- b) Giovanni Boccaccio: *Decameron*(Selection:Day 2nd, Stories- 3,6,7,8)

Recommended Reading:

Bates, Alfred. *The Drama: Its History, Literature, and Influence on Civilization, Vol. 1*. London: Historical Publishing Company, 1906.

Beye, Charles Rowan . *Ancient Greek Literature and Society*. Ithaca, New York: Cornell University Press, 1987.

Boardman, John, et al. eds. *The Oxford History of the Roman World*,2001.

- Bolotin, David. Plato's dialogue on Friendship. An Interpretation of the *Lysis* with a new translation, Ithaca/London 1979.
- Cartledge, Paul. *The Cambridge Illustrated History of Ancient Greece*, 2002.
- Cropp, Martin . "Lost Tragedies: A Survey". *A Companion to Greek Tragedy*. Blackwell Publishing, 2006.
- Easterling, P.E., and Knox, B.M.W., [editors] . *The Cambridge History of Classical Literature: Greek literature: Volume I*. Cambridge [Cambridgeshire]; New York: Cambridge University Press, 1985.
- Oliver Taplin's chapter on Homer, *The Oxford History of the Classical World*, Oxford University Press, 1993.
- Smith, Helaine . *Masterpieces of Classic Greek Drama*. Greenwood, 2005.
- Whitmarsh, Tim . *Ancient Greek Literature*. Cambridge: Polity Press, 2004.

Web Resources:

- <http://guides.main.library.emory.edu/content.php?pid=378716&sid=3162995>
- worldwidegreek.com/
- web.cn.edu/kwheeler/resource_lit.classics.html
- exhibitions.slv.vic.gov.au/love-and.../european.../european-literature
- www.bigeye.com/liteur20.htm

Question Paper Pattern

Q.1	An essay type question on Unit 1 with internal choice	16
Q.2	An essay type question on Unit 2 with internal choice	16
Q.3	An essay type question on Unit 3 with internal choice	16
Q.4	An essay type question on Unit 4 with internal choice	16
Q.5	An essay type question on Unit 5 with internal choice	16

Paper 4 B (Elective): Masterpieces of World Literature: Ancient and Medieval Age

Rationale

The concept of World Literature has been received with enthusiasm from literary scholars since Goethe's comments in the nineteenth century. In today's circumstances when literature from diverse nations of the world has become accessible to the readers due to increase in the translation activity and revolution in communication technology, it becomes pertinent to prescribe the texts by literary stalwarts of different languages to a student of literature. The first part of this course begins with the most ancient literary creation *Gilgamesh* and covers various classical and medieval cultures from Asia, Europe and Africa. The objective is to make the landmarks in the literature available to the students so that they develop a wider understanding of literature as a common heritage of humanity.

Course Contents

Unit 1:

- a) Richard Moulton: *The Unity of Literature and the Conception of World Literature* (from *World Literature and Its Place in General Culture*, Whitefish, Montana: Kessinger Publishing LLC, 1911, reprint 2010)
- b) Goethe's *Theory of World Literature* (from *Goethe's Ly Essays* edited by J E Spigarn Whitefish, Montana: Kessinger Publishing LLC, 1921, reprint 2006)

Unit 2:

- a) *The Epic of Gilgamesh*
- b) *The Epic of Sundiata*

Unit 3:

- a) Sophocles: *Ajax*
- b) Kalidasa: *Abhigyan Shakuntalam*

Unit 4:

- a) *Sir Gwain and the Green Knight*
- b) Farid ud din Attar: *The Conference of the Birds*

Unit 5:

- a) *Analects of Confucius* (Selections-Books I, VII, XI)
- b) *Arabian Nights* (Selections: The Tale of the Bull and the Ass, The Tale of the Three Apples, The Ebony Horse)

Suggested translated Texts:

Sandars, N. K. *The Epic of Gilgamesh*. Penguin 1960

Djibril Tamsir Niane, *Sundiata: an epic of old Mali*, London: Longmans, 1965

The Conference of the Birds : Farid ud din Attar

The Arabian Nights Entertainment, translated by Sir Richard Burton

Recommended Reading:

Apter, Emily. *The Translation Zone: A New Comparative Literature*. Princeton: Princeton U.P., 2006.

Casanova, Pascale. *The World Republic of Letters*, trans. M. B. DeBevoise. Cambridge: Harvard U. P., 2004.

David, Damrosch. *What Is World Literature?* Princeton: Princeton U. P., 2003.

DeBevoise, M. B. trans *The World Republic of Letters*, Harvard U.P., 2004

----, *How to Read World Literature*. New York and London: Blackwell, 2009.

David et al., Damrosch eds., *The Longman Anthology of World Literature*. New York: Pearson Longman, 6 vols., 2d ed. 2009.

Davis ,Paul et al., eds., *The Bedford Anthology of World Literature*. New York: Bedford/St. Martin's, 6 vols., 2004.

D'haen, Theo. *The Routledge Concise History of World Literature*. London: Routledge, 2011.

D'haen et al., Theo eds., *The Routledge Companion to World Literature*. London: Routledge, 2011.

----, *World Literature: A Reader*. London: Routledge, 2012.

Hashmi, Alamgir. *The Commonwealth, Comparative Literature and the World*. 1988.

Jerome Rothenberg & Pierre Joris, eds., *Poems for the Millennium: A Global Anthology*.

Berkeley: U. of California P., two vols., 1998.

Kurian, George Thomson, *Timetable of World Literature*, New York: Fact on File, 2003

Moretti ,Franco. *Graphs, Maps, Trees: Abstract Models for a Literary Theory*. London: Verso, 2005.

Moss, Joyce & valetstuk, Lorraine, eds., *World Literature and Its Times*, New York: Gale group, 2001

Pizer ,John. *The Idea of World Literature: History and Pedagogical Practice*. Baton Rouge: Louisiana State U. P., 2006.

Posnett ,H. M., *Comparative Literature*. London: K. Paul, Trench, 1886.

Prendergast, Christopher ed., *Debating World Literature*. London: Verso, 2004.

Puchner , Martin et al., eds., *The Norton Anthology of World Literature*. New York: W.W. Norton, 6 vols., third edition, 2012.

Puchner, Martin. "Poetry of the Revolution: Marx, Manifestos, and the Avant-Garde Princeton: Princeton University Press, 2012.

Tanoukhi, Nirvana. *The World Literature Reader*. London: Routledge, 2012.

Thomsen, Mads Rosendahl. *Mapping World Literature: International Canonization and Transnational Literatures*. London: Continuum, 2008.

Schmeling, Manfred ed., *Weltliteratur Heute: Konzepte und Perspektiven*. Würzburg: Königshausen und Neumann, 1995.

Web Resources:

<http://www.sacred-texts.com>

<http://omacl.org>

<http://www.learner.org/courses/worldlit/>

<http://www.worldliteraturetoday.org/>

<http://wordswithoutborders.org/>

http://www.dmoz.org/Arts/Literature/World_Literature/

<http://www.worldliteratureforum.com/forum/>

Question Paper Pattern

Q.1	An essay type question on Unit 1 with internal choice	16
Q.2	An essay type question on Unit 2 with internal choice	16
Q.3	An essay type question on Unit 3 with internal choice	16
Q.4	An essay type question on Unit 4 with internal choice	16
Q.5	An essay type question on Unit 5 with internal choice	16

Paper 5: Basics of Linguistics

Rationale

The study of Linguistics is an essential part of the course work for postgraduation in English. This course has the objectives a)to acquaint the students with the fundamentals of Modern Linguistics b)To introduce the basic concepts in Linguistics, and c)To train the students in the principles of language study in general.

Course Contents

Unit1: Introduction

- a) Definition, Scope of Linguistics, Levels of Linguistic Analysis, Branches of Linguistics , Interdisciplinary fields of Linguistics
- b) The Traditional approach to Linguistics, The structural Approach to Linguistics, The Cognitive Approach to linguistics

Unit 2: Phonology

- a) Phonetics and Phonology, Principles of Phonemic Analysis, Phonemes And Allophones,
- b) Word Accents, Intonation, Assimilation and Elision, Segment Vs Features

Unit 3: Morphology

- a) Morpheme: Free, Bound Morpheme , Word Formation Methods
- b) Inflectional and Derivational Morphology, Morphological Analysis of Words

Unit 4: Syntax

- a) Seven Basic clause types, Subordination and coordination, Phrases – NP, VP, Adj.P, Adv.P, PP
- b) IC Analysis of a simple sentence, X-bar theory: NP Movement and Wh Movement

Unit 5: Semantics & Pragmatics

- a) Semantics: Definition, Varieties of Meanings, Sense and Reference, Denotation and Connotation, Components and Contrast of meaning (synonym, antonym, hyponymy, etc), Sentence-meaning and Utterance-meaning, Lexical relations (homonymy, homophony, polysemy, metonymy), Entailment and Presupposition
- B) Pragmatics: Definition, Scope, Performatives, Speech Acts, Speaker, Reference, Literal and non-literal communication, Direct and indirect communication, Discourse and conversation, Language and context

Prescribed Textbooks:

Syal , Pushpinder, D.V. Jindal,(2nd Ed) *An Introduction to Linguistics*, Prentice Hall of India, New Delhi, 2007.

Akmajian, A et al, *Linguistics: An Introduction To Language And Communication*, Practice Hall of India, New Delhi. 1996 (fourth ed) 2010 (Fifth ed)

Recommended Reading:

- Aitchison ,Jean .*Linguistics*, Licolnwood:NTC Publishing Group, 1999.
Barber, Charles. *The English Language: A Historical Introduction*. Cambridge: Cambridge University Press, 1993.
Chomsky,Noam.*Syntactic Structures*,Berlin:Mouton,(1957)reprint 2004.
Culler, Jonathan. *Saussure*. Fontana. 1976.
DeLacy ,Paul,ed. *The Cambridge Handbook of Phonology*, Cambridge University Press,2007.
Fromkin,Victoria et al ,*An Introduction to Language*, New Delhi:Cengage Learning, (10th edition), 2013.
Gregory,Howard.Semantics,London: Routeledge,2000.
Griffiths,Patrics.An Introduction to English Semantics and Pragmatics ,Edinburgh: Edinburgh Univ.Press,2006.
Harris, Roy. Reading Saussure: A critical commentary on the Cours de linguistique générale. La Salle, Illinois: Open Court. 1987.
Jeffries,Lesley. Discovering Language,The Structure of Modern English,New York:Palgrave,2006.
Ladefoged, Peter & Ian Maddieson .Th So s of h Wo 's L s. Oxford: Blackwell1996.
O'Grady, William, et al. Contemporary Linguistics: An Introduction (5th ed.). Bedford/St. Martin's, 2005.
Saussure Ferdinand, Eds. Charles Bally and Albert Sechehay, tr.Roy Harris.A Course in General Linguistics, La Salle, Illinois:Open Court,(1916)Reprint 1998.
Sobin, Nicholas.Syntactic Analysis:The basics,Chickester:Wiley Blackwell,2011.
Sperlich,Wolfgang B. Noam Chomsky,London:Reaktion,2006.
Trask,R.L.Key Concepts in Language and Linguistics,Oxon:Routledge,2004.
---A Dictionary of Grammatical Terms in Linguistics,London:Routlegde,1992.

Web resources:

- www.isle-linguistics.org
<http://www.natcorp.ox.ac.uk/>
<https://www.llas.ac.uk/index.html> www.degruyter.com/view/serial/182226
<http://linguistlist.org/>
<http://www.lagb.org.uk/> www.scientificpsychic.com/linguistics.html

Question Paper Pattern

Q.1	An essay type question on Unit 1 with internal choice	16
Q.2.	a. An essay type question on Unit 2 with internal choice	08
	b. Transcription of 08 sentences with stress and intonation.	08
Q.3	a. An essay type question on Unit 3 with internal choice	08
	b. Morphological Analysis of 08 words	08
Q.4	a. Functional identification of Basic Clauses (2 out of 4)	04
	b. Phrasal Analysis (2 out of 4)	04
	c. Clausal Analysis (2 out of 4)	04
	d. IC Analysis of simple sentences (2 out of 4)	04
Q.5	a. Short notes on Unit 5 (2 out of 4)	08
	b. Form and Meaning (2 out of 4)	04
	c. Ambiguity (2 out of 4)	04

Paper 6: British Literature from Romantic Age to Contemporary Times

Rationale

This course forms the latter part of British Literature course from earlier semester. It takes up the study of British literature from the Romantic Period onward and concludes in the contemporary times. The student is expected to gain an understanding of the process of literary development from the revolutionary Romantic Age through the Victorian period to the more turbulent twentieth century when the literature became more complex as well as technically more refined.

Course Contents

Unit 1: a) S.T. Coleridge: *Rime of the Ancient Mariner*
b) Wordsworth: *Ode on Intimations of Immortality*

Unit 2: a) Charles Dickens: *Great Expectations*
b) Jane Austen: *Sense and Sensibility*

Unit 3: a) T.S. Eliot: *The Waste Land*
b) Seamus Heaney: *Digging, Follower, Midnight*

Unit 4: a) G. B. Shaw: *Man and Superman*
b) Tom Taylor: *Still Waters Run Deep*

Unit 5: a) Graham Greene: *The Heart of the Matter*
b) Doris Lessing: *The Good Terrorist*

Recommended Reading

Barth, J. Robert. *Romanticism and Transcendence*. Columbia: University of Missouri Press, 2003.

Bowra, C. M. *The Romantic Imagination*. Oxford: Oxford University Press, 1949.

Christopher John Murray, *Encyclopedia of the Romantic Era: A-K*, Taylor and Francis Books, 2004.

Deirdre Le Fay, *Jane Austen: The World of Her Novels*, London: Frances Lincoln Limited, 2002.

Duncan Wu, *A Companion to Romanticism*, Blackwell Publishing, 1998.

David Levin, *History as Romantic Art: Bancroft, Prescott, and Parkman*, 1967.

Marsh, Jan. Introduction. *Poems and Prose*. By Christina Rossetti. London: Everyman, 1994.

Taylor, Tom, *Still Waters Run Deep*, Nabu Press, 2012.

Dickens, Charles, *Great Expectations*, Research and Education Association, New Jersey, 1994.

Shaw, G.B., *Man and Superman*, Chelsea House, 1987

Web Resources:

www.lang.nagoya-u.ac.jp/~matsuoka/EngLit.html

www.k-state.edu/english/westmank/literary/contempbrit_resources.html

vos.ucsb.edu/browse.asp?id=2747

libguides.indycc.edu/britlit

www.thegreatcourses.com/tgc/courses/course_detail.aspx?cid=2400

Question Paper Pattern

Q.1	An essay type question on Unit 1 with internal choice	16
Q.2	An essay type question on Unit 2 with internal choice	16
Q.3	An essay type question on Unit 3 with internal choice	16
Q.4	An essay type question on Unit 4 with internal choice	16
Q.5	An essay type question on Unit 5 with internal choice	16

Paper 7: Indian English Writing

Rationale

Though Indian writing in English started in the colonial period as a result of the British rule in India, the English language went on to become an integral part of the Indian culture and consequently, Indian literature. From the pre-independence era to the present times, works by Indian English writers have been gaining worldwide critical recognition. The literature by Indian authors represents the cultural heritage of Indian literary tradition as well as grip on the contemporary literary forms and issues. With the study of this course, it is expected for the student to get an overall view of the contribution of the notable Indian authors to the body of English Literature.

Course Contents

Unit 1: Historical Background

- a) The Winds of Change: 1857 to 1920, Independence and After: Poetry, Prose and Drama
- b) The Gandhian Whirlwind: 1920 to 1947, Independence and After: Fiction, Short Story

Unit 2:

- a) Toru Datt: *Sita, Sindhu, Our Casuarina Tree*
- b) Arun Kolatkar (From Jejuri) : *The Bus, The Priest, An Old Woman*

Unit 3:

- a) Rabindranath Tagore: *The Post Office*.
- b) Girish Karnad: *The Fire and the Rain*.

Unit 4:

- a) Amitav Ghosh: *The Shadow Lines*
- b) Shashi Deshpande: *That Long Silence*

Unit 5:

- a) Swami Vivekananda: *To the Youth of India*
- b) Dr. B.R. Ambedkar: *Marx or Buddha*

Prescribed Reading: (Unit 1 and 2):

Naik, M.K. *A History of Indian English Literature*, Sahitya Academy, 1982, reprint 2009
A.Iyengar, Srinivasa K.R.: *Indian Writing in English*. Sterling Publishers Private Limited.
Reprint 1994

Recommended Reading:

de Souza, Eunice. *Nine Indian Women Poets*, Delhi: Oxford University Press, 1997.
---Talking Poems: *Conversations With Poets*. New Delhi: Oxford University Press, 1999.

---- Early Indian Poetry in English: An Anthology : 1829-1947. New Delhi: Oxford University Press, 2005.

Haq, Kaiser (ed.). Contemporary Indian Poetry. Columbus: Ohio State University Press, 1990.

Hogan, P. C., Colonialism and Cultural Identity: Crises of Tradition in the Anglophone Literatures of India, Africa, and the Caribbean, State University of New York Press 2000

King, Bruce Alvin. Modern Indian Poetry in English: Revised Edition. New Delhi: Oxford University Press, 1987, rev. 2001. ("the standard work on the subject and unlikely to be surpassed" — Mehrotra, 2003).

Mehrotra, Arvind Krishna (ed.). A History of Indian Literature in English. New York: Columbia University Press, 2003. Distributed in India by Doaba Books Shanti Mohan House 16, Ansari Road, New Delhi.

Parthasarathy, R. (ed.). *Ten Twentieth-Century Indian Poets (New Poetry in India)*. New Delhi: Oxford University Press, 1976.

Sadana, Rashmi. "Writing in English," in *The Cambridge Companion to Modern Indian Culture*. Cambridge: Cambridge University Press, 2012.

Thomson, E., *Rabindranath Tagore: Poet and Dramatist*, Pierides Press, 1926

Web Resources:

<http://indianwritinginenglish.blogspot.in/>

<http://literarism.blogspot.in/2012/01/indian-english-literature.html>

<http://www.indiaheritage.org/creative/english.htm>

http://society.indianetzone.com/literature/1/writers_english_literature_india.htm

http://academia.edu/Documents/in/Indian_Writing_in_English

Question Paper Pattern

Q.1	An essay type question on Unit 1 with internal choice	16
Q.2	An essay type question on Unit 2 with internal choice	16
Q.3	An essay type question on Unit 3 with internal choice	16
Q.4	An essay type question on Unit 4 with internal choice	16
Q.5	An essay type question on Unit 5 with internal choice	16

Paper 8A (Elective): Modern European Literature

Rationale

The continent of Europe and its literature underwent a significant change since the Renaissance. The present course, second part of the European Literature study from the earlier semester, covers the European Literature from Renaissance to the contemporary period. The study includes masterpieces from Italy, Spain, Russia, the Netherlands, Germany, France, Romania and England. The student can get an idea of the transformation, both in the socio-political and the literary fields through the five centuries across different national cultures in Europe by studying the prescribed units.

Course Contents

Unit 1: Historical Background

- a) Age of Revolutions, Industrial Revolution, Imperialism, Rise of Socialism, World Wars I & II, Formation of European Union
- b) Renaissance, Enlightenment, Realism in 19th Century Literature, Existentialism, Modernism, Postmodernism

Unit 2:

- a) Elizabeth Barret Browning- *Sonnets from Portuguese*
 - i) *I thought once how Theocritus had sung*
 - ii) *Unlike are we, O princely Heart*
 - iii) *Go from me. Yet I feel that I shall stand*
 - iv) *I lived with visions for my company*
- b) Charles Baudelaire- *The Flowers of Evil*(selections)
 - i) *Benediction*
 - ii) *Exotic Perfume*
 - iii) *Hymn to Beauty*
 - iv) *Spleen*

Unit 3:

- a) Joost Van der Vondel: *Lucifer*
- b) Eugene Ionesco-*Rhinoceros*

Unit 4:

- a) Dostoevsky- *Crime and Punishment*
- b) Kafka :*The Trial*

Unit 5:

- a) Michel Foucault : *Archeology of Knowledge* part 1 & 2 (Chapter 1-7) –
- b) Martin Buber : *I and Thou*

Recommended Reading:

Aldridge, Alfred Owen (1975). *Voltaire and the Century of Light*. Princeton, New Jersey: Princeton University Press

Barbara Bush, *Imperialism and Postcolonialism* (History: Concepts, Theories and Practice), Longmans, 2006,

Chambers, Ross. *The Writing of Melancholy: Modes of Opposition in Early French Modernism*. Chicago: University of Chicago, 1993. Print.

E. J. Hobsbawm, *On Empire: America, War, and Global Supremacy*, Pantheon Books, 2008,

Edward Said, *Culture and Imperialism*, Vintage Books, 1998,

Ionesco, Eugene, (Translated into English by Derek Prouse), *Rhinoceros and Other Plays*, New York : Grove Press, 1960

J. A. Hobson, *Imperialism: A Study*, Cosimo Classics, 2005,

Leo Blanken, *Rational Empires: Institutional Incentives and Imperial Expansion*, University Of Chicago Press, 2012

Robert Bickers/Christian Henriot, *New Frontiers: Imperialism's New Communities in East Asia, 1842–1953*, Manchester, Manchester University Press, 2000,

Simon C. Smith, *British Imperialism 1750–1970*, Cambridge University Press, 1998,

Thompson, William J. *Understanding Les Fleurs Du Mal: Critical Readings*. Nashville: Vanderbilt UP, 1997

Web Resources

www.bibliomania.com/

<http://guides.main.library.emory.edu/medievalearlymodernliterature>

<http://latrobe.libguides.com/content.php?pid=297612&sid=2442635>

<http://guides.lib.ndsu.nodak.edu/content.php?pid=459816&sid=3779475>

Question Paper Pattern

Q1	An essay type question on Unit 1 with internal choice	16
Q2	An essay type question on Unit 2 with internal choice	16
Q3	An essay type question on Unit 3 with internal choice	16
Q4	An essay type question on Unit 4 with internal choice	16
Q5	An essay type question on Unit 5 with internal choice	16

Paper 8B (Elective): Masterpieces of World Literature: Modern Period

Rationale

In the modern period, the literatures across the world became more enriched with increase in contact. The Post World War era saw a facilitation of interest in the study of world literature. In the present section of the course on World Literature, texts from Latin American, Asian, African and European cultures have been prescribed to bring out the different facets of human experience and literary technique.

Course Contents

Unit 1:

- a) Pascal Casanova : *Literature as a World* (from *The World Republic of Letters*.Harvard University Press,2004)
- b) Franco Moretti : *Conjectures on World Literature*(from *Debating World Literature*, edited by Christopher Prendergast.London:Verso,2004)

Unit 2:

- a) Miguel de Cervantes : *Don Quixote* (Part I)
- b) Wu Cheng'en : *Journey to the West*

Unit 3:

- a) Pablo Neruda : *The Heights of Macchu Picchu*
- b) Nguyễn Du: *The Tale of Kieu*

Unit 4:

- a) Kahlil Gibran : *The Prophet*
- b) Jean Jacques Russo : *The Social Contract*

Unit 5:

- a) Jean Paul Sartre : *The Flies*
- b) Maxim Gorky :*Mother*

Recommended Reading

Desan ,Wilfred. *The Tragic Finale: An Essay on the Philosophy of Jean-Paul Sartre* (New York: Harper Torchbooks, 1960.

Flynn, Thomas. *Sartre and Marxist Existentialism: The Test Case of Collective Responsibility*, Chicago: University of Chicago Press, 1984.

Foster ,David William *Mexican Literature,A History* .Austin:Univ of Texas Press, 1994.

Fulton ,Ann. *Apostles of Sartre: Existentialism in America, 1945-1963*.Evanston, IL: Northwestern University Press, 1999.

Gies ,David T. (Ed.). *The Cambridge History of Spanish Literature*. Cambridge University Press, 2008.

Keene, Donald. *Five Modern Japanese Novelists*. Columbia University Press. 2005.

Kurian, George Thomson, *Timetable of World Literature, Fact on File*, New York, 2003.

Lal ,Mohan . The Encyclopaedia Of Indian Literature (Volume Five (Sasay To Zorgot). Sahitya Akademi, 2006.

Moss,Joyce & valetuk,Lorraine, ed., World Literature and Its Times, Gale group, New York, 2001.

Owen, Stephen, Reading in Chinese Literary Thoughts, Harvard University Press,1992.

Sollars ,Michael and Arbolina, Llamas Jennings, eds. The Facts on File companion to the world novel: 1900 to the present. Infobase Publishing.2008.

Zelinsky ,K.Soviet literature: Problems and People ., Progress Publishers. Moscow. 1970.

Zhukov, Vladislav . *The Kim Vân Kiều of Nguyen Du (1765–1820)*. Pandanus Books,2004.

Web Resources:

<http://fajardo-acosta.com/worldlit/>

[www.dmoz.org > Arts > Literature > World Literature](http://www.dmoz.org/Arts/Literature/World_Literature)

<http://guides.lib.ndsu.nodak.edu/content.php?pid=459816&sid=3764441>

<http://libguides.unbc.ca/content.php?pid=456534&sid=3738739>

Question Paper Pattern Marks

Q.1	An essay type question on Unit 1 with internal choice	16
Q.2	An essay type question on Unit 2 with internal choice	16
Q.3	An essay type question on Unit 3 with internal choice	16
Q.4	An essay type question on Unit 4 with internal choice	16
Q.5	An essay type question on Unit 5 with internal choice	16

Syllabus of M.A. Second Year SEMESTERS III & IV

SEM III	SEM IV
Paper 9 : Indian Poetics	Paper 13: Advanced Critical Theory
Paper 10: English Language and Literature Teaching	Paper 14: Indian Literature in English Translation
Paper 11: American Literature	Paper 15: New English Literatures
Paper 12 (Elective A): Popular Literature	Paper 16 (Elective A): Cultural Studies
Paper 12 (Elective B): Discourse Analysis	Paper 16 (Elective B): Special Authors G.B.Shaw and R.K.Narayan
Paper 12(Elective C): Subaltern Literature	Paper 16 (Elective C) Cinematic Representations of Literature

Paper 9: Indian Poetics

Rationale

India has a rich and diversified tradition of critical thought. This course is designed with the aim of providing the students an access to India's critical thought. Some of the key concepts and ideas in the Indian Poetics are delineated in the prescribed essays. The course can acquaint the student with both, the ancient and the modern theories from the most significant literary thinkers in our own tradition and thus can introduce the student to the Indian concepts of literary theorizing.

Course Contents

Unit I:

- a) K. Krishnamoorthy's *Sanskrit Poetics: An Overview*
- b) R. B. Pathankar's *Aesthetics: Some Important Problems*

Unit II:

- a) Bharatamuni – *On Natya and Rasa*
- b) Bhartrhari- *On Syntax and Meaning*

Unit III:

- a) Anandavardhana- *Dhvani: Structure and Poetic Meaning*
- b) Kuntaka: *Language of Poetry and Metaphor*

Unit IV:

- a) Rabindranath Tagore-*What is Art?*
- b) B. S. Mardhekar- *Poetry and Aesthetic Theory*

Unit V:

- a) Gayatri Chakravorty Spivak- *A Literary Representation of the Subaltern*
- b) Aijaz Ahmad- *Orientalism and After*

Prescribed Book:

Devy, G. N. 2002. *Indian Literary Criticism, Theory and Interpretation*. Orient Longman: Hyderabad

Recommended Reading

Bhattacharya, Sivaprasad. *Studies in Indian Poetics*. Firma KLM, 1981

De, S.K. *History of Sanskrit Poetics* (2nd edn., Firma KL Mukhopadhyay, Calcutta, 1960)

Deshpande, G.T. *Indian Poetics*. Pune: Popular Prakashan, 2009

T.Nanjundaiya Sreekantaiya. *Indian Poetics*. Delhi: Sahitya Akademi, 1991

Raghavan, *An Introduction to Indian Poetics* (Macmillan, Madras, 1970)

Seturaman ,V.S. (ed.) *Indian Aesthetics* (Madras: Macmillan, 1993).

Web Resources

www.sahitya-akademi.gov.in

[www.academia.edu/Documents/in/*Indian_Poetics*](http://www.academia.edu/Documents/in/Indian_Poetics)

Question Paper Pattern

Q.1	An essay type question on Unit 1 with internal choice	16
Q.2	An essay type question on Unit 2 with internal choice	16
Q.3	An essay type question on Unit 3 with internal choice	16
Q.4	An essay type question on Unit 4 with internal choice	16
Q.5	An essay type question on Unit 5 with internal choice	16

Paper 10: English Language and Literature Teaching

Rationale

In today's world of Globalization, English language has an important status in India as an international and intra-national language. National Knowledge Commission (NKC) (2006) recommends that graduates with high proficiency in English and good communication skills should be groomed in the institutes of Higher Education. There are a number of challenges in the teaching and learning of English as a Second Language. This course aims at providing an orientation to the postgraduate students in the contemporary practices of English Language and Literature teaching in India which is essential for those who plan to become teachers of English.

Course Contents

Unit 1: Introduction

- a) ELT in India –An overview, Aims and Objectives of teaching English,
- b) Principles of Learning a Foreign Language, Problems of Learning a Foreign Language

Unit 2: Context of Language Teaching

- a) ELT: A historical Overview and Current Trends, Psychology of Language Learning, Second language teaching from the psychological perspective, Behaviourism, Cognitivism.
- b) Krashen's Monitor Model, Natural Order Hypothesis, Acquisition/Learning Hypothesis, Monitor Hypothesis, Input Hypothesis, Affective Filter Hypothesis, Innate language Hypothesis and Inter language Hypothesis, Sociological Perspectives on ELT

Unit 3: Language Teaching Methods-

- a) Grammar Translation Method, Oral and Situational Language Teaching Practices, Direct/ Natural Method, Reading Method.
- b) Communicative Language Teaching, Humanistic Approach to language Teaching, Place of Activities and games in Language Classrooms.

Unit 4: Teaching Language and Literature

- a) Developing language skills: Listening, Speaking, Reading, Writing
- b) Organising teaching English-Lesson planning, Teaching Prose and Poetry, Teaching Grammar, Vocabulary

Unit 5: Course and Evaluation

- a) Curriculum, Syllabus and its types, Course and designing Course, A/V aids
- b) Tests and Examinations in English, Formative and Summative Evaluation and Remedial English

Prescribed Books:

1. Bose, Kshanika. 1998. *Teaching of English: A Modern Approach*. Doaba House: New Delhi.
2. Tickoo, M. L. 2003. *Teaching and Learning English*. Orient Black Swan: Hyderabad
3. Nagaraj, Geetha. 1996. *English Language Teaching: Approaches, Methods and Techniques*. Orient Longman: Calcutta

Recommended Reading:

- English Language Teaching Documents (British Council, London, 1977)
H.B. Allen (ed.), *Teaching English as a Second Language* (McGraw-Hill, NY, 1972)
C.J. Brumfit, *Communicative Methodology in Language Teaching* (Cambridge UP, 1984)
J. Carroll & P. Hall, *Make Your Own Language Tests: A Practical Guide to Writing Language Performance Tests* (Pergamon, Oxford, 1985)
M. Celce-Murcia & L. McIntosh (ed.), *Teaching English as a Second or Foreign Language* (Newbury House, Rowley, Mass., 1979)
J. Harmer, *The Practice of ELT* (Longman, London, 1983)
K. Johnson, *Communicative Syllabus Design and Methodology* (Pergamon, Oxford, 1982)
W. Littlewood, *Foreign and Second Language Learning* (Cambridge UP, 1984)
W. Rivers, *Communicating Naturally in a Foreign Language; Speaking in Many Tongues* (Newbury House, Rowley, Mass., 1972)
L. Smith (ed.), *English for Cross-Cultural Communication* (Macmillan, London, 1981)
R. Quirk & H. Widdowson (ed.), *English in the World: Teaching and Learning the Language and Literatures* (Cambridge UP, 1985)
R.K. Bansal, *Spoken English for India* (Orient Longman, Madras, 1972)
V.V. Yardi, *Teaching English in India Today* (Parimal Prakashan, Aurangabad, 1977)
N.S. Prabhu, *Second Language Pedagogy* (Oxford UP, 1987)
R.J. Baumgardner (ed.), *South Asian English: Structure, Use and Users* (Oxford UP, 1996)
T. Balasubramanian, *Introduction to English Phonetics* (Macmillan, Madras, 1985)

Web Resources

- British Council : <http://www.teachingenglish.org.uk/>
The Internet TESL Journal : <http://iteslj.org/>
English online : <http://www.english-online.at/index.htm>
Clarity Language Consultants : <http://www.clarityenglish.com/>

Question Paper Pattern:

Q.1	An essay type question on Unit 1 with internal choice	16
Q.2	An essay type question on Unit 2 with internal choice	16
Q.3	An essay type question on Unit 3 with internal choice	16
Q.4	An essay type question on Unit 4 with internal choice to a practical plan of teaching of a Poem/prose	16
Q.5	An essay type question on Unit 5 with internal choice	16

Paper 11: American Literature

Rationale

American Literature has developed as a distinctive literature since the days of colonization of America by European powers. The present course has the objective of providing a brief introduction to the history of American literature and of carrying out close study of some of the landmark texts in the American literary tradition.

Course Contents

Unit 1: Historical Background

- a) Early American and colonial period, democratic origins and revolutionary Writers (from the beginning to 1820), The Romantic Period (1820-1860), The Rise of Realism (1860-1914)
- b) Modernism and Experimentation (1914-1945), The Anti-tradition, Realism and Experimentation (1945-1990), Contemporary American Literature

Prescribed Text: *Outline of American Literature* by Kathryn Van Spankeren (Revised Edition) Published by U.S. Dept. of State, 1994 ([download linkphotos.state.gov/libraries/amgov/30145/publications.../outline_us_lit.pdf](http://linkphotos.state.gov/libraries/amgov/30145/publications.../outline_us_lit.pdf))

Unit 2

- a) David Mamet -*Glengarry Glen Ross*
- b) Arthur Miller-*The Crucible*

Unit 3

- a) e e cummings-
 - i) *pity this busy monster manukind*
 - ii) *anyone lived in a pretty how town*
 - iii) *I sing of Olaf glad and big*
 - iv) *the Cambridge ladies who live in furnished souls*
 - v) *all in green went my love riding*
- b) Edgar Allen Poe-
 - i) *The Raven*
 - ii) *Annabel Lee*
 - iii) *Eldorado*

iv) *To Helen*

v) *Ulaume*

Unit 4

a) Thomas Paine- *Common Sense*

b) Martin Luther King Jr- *I have a dream*

Unit 5

a) F Scott Fitzgerald-*The Great Gatsby*

b) Toni Morrison-*Beloved*

Recommended Reading

Alpana Sharma Knippling *New Immigrant Literatures in the United States: A Sourcebook to Our Multicultural Literary Heritage*. Westport, Connecticut: Greenwood, 1996

Blanck, Jacob, comp. *Bibliography of American literature*. New Haven, 1991.

Earl N. Harbert and Robert A. Rees. (eds.) *Fifteen American authors before 1900; bibliographic essays on research and criticism*. Madison, 1984.

Jackson R. Bryer (ed.) *Sixteen modern American authors; a survey of research and criticism*. Durham, N.C., 1974.

Lauter, Paul. *The Heath Anthology of American Literature*. Lexington, MA: D.C. Heath, 1990.

Lentricchia, Frank and Thomas McGlaughlin. *Critical Terms for Literary Study*. Chicago: U of Chicago Press, 1990.

Millwood *Literary writings in America; a bibliography.*, N.Y., 1977. Nilon, Charles H. Rees, Robert A. and Harbert,

Rubin, Louis D. *A bibliographical guide to the study of Southern Literature*. Baton Rouge, 1969.

Spiller, Robert et al (eds) *Literary history of the United States* 4th ed., rev. New York, 1974.

Woodress, James. *Eight American authors; a review of research and criticism*. Rev. ed. New York, 1972. R810.9 St761

Web Resources

The American Literature Library :www.americanliterature.com

PAL: Perspectives in American Literature - A Research and Reference Guide

An Ongoing Project <http://www.csustan.edu/english/reuben/pal/TABLE.html>

American authors on the Web :<http://www.lang.nagoya-u.ac.jp/~matsuoka/AmeLit.html>

Columbia University American Literature Resources

:<http://www.columbia.edu/~lmg21/bookmark.htm>

Virginia University hypertexts : <http://xroads.virginia.edu/~hyper/hypertext.html>

Online American Literature Resources : <http://college.cengage.com/english/heath/toc.html>

Keele University, American studies : <http://www.keele.ac.uk/depts/as/Literature/amlit.html>

American Literary Scholarship

:http://muse.jhu.edu/journals/american_literary_scholarship/toc/als2003.1.html

American Literature on the Web: <http://www.nagasaki-gaigo.ac.jp/ishikawa/amlit/index.htm>

Question Paper Pattern

Q.1	Question on Unit 1: Write short notes on any two (four items to be given) 8x2=	16
Q.2	An essay type question on Unit 2 with internal choice	16
Q.3	An essay type question on Unit 3 with internal choice	16
Q.4	An essay type question on Unit 4 with internal choice	16
Q.5	An essay type question on Unit 5 with internal choice	16

Paper 12 A (Elective): Popular Literature

Rationale

The study of popular literature was neglected by literary critics for a long time, but with the advent of Postmodernism, it was deemed necessary to pay attention to popular literary texts. The present course gives an opportunity to study the various genres of popular literature so as to bring the realization about the immensely important place of popular literature in modern culture.

Course Contents

Unit 1

- a) John A. Weaver: "Traditions of Popular Culture Studies" (Chapter 2 from *Popular Culture Primer*, New York: Peter Lang Publishing ,2005)
- b) Ken Gelder : "Popular Fiction, The Opposite of Literature?"(Chapter 1 from *Popular Fiction: The Logics and Practices of a Literary Field*, Oxon: Routledge,2002)

Unit 2

- a) Self-Help: Stephen R Covey- *The 7 Habits of Highly Effective People*
- b) Science Fiction: Robert A Heinlein-*Stranger in a Strange Land*

Unit3

- a) Thriller: Dan Brown-*The Da Vinci Code*
- b) Mystery: Agatha Christie-*And Then There were None*

Unit 4

- a) Romance: Erich Segal- *Love Story*
- b) Fantasy: J K Rowling-*Harry Potter and the Sorcerer's Stone*

Unit 5

- a) Horror: William Peter Blatty-*The Exorcist*
- b) Indian Bestseller: Amish Tripathy-*The Immortals of Meluha*

Recommended Reading

Cawleti, John G.(ed.) *Adventure, Mystery, and Romance: Formula Stories as Art and Popular Culture*. Chicago: Univ. of Chicago Press, 1976.

Coser, Lewis A., et al. *Books: The Culture and Commerce of Publishing*. Chicago and London: U of Chicago Press, 1982.

Curwen, Peter. *The World Book Industry*. New York and Oxford: Fact On File Publications, 1986.

Fiedler, Leslie. *What was Literature*. New York: Simon and Schuster 1982.

Freccero, Carla. *Popular Culture: An Introduction*. New York: N Y U Press.1999.

Gans, Herbert J. *Popular Culture and High Culture: An Analysis and Evaluation of Taste*. New York: Basic Books, 1974.

Hayes, Tom. *The Birth of Popular Culture*. Duquene University Press: Pittsburgh, 1992.

Rosenberg, Bernard, and David Manning White. *Mass Culture: The Popular Arts in America*. Glencoe: Free P, 1957.

Hoppenstand Gary, et al (eds.). *Greenwood Encyclopedia of World Popular Culture*.

Westport: Greenwood Publishing Group, 2008.

Storey, John. *Cultural Theory and Popular Culture: An Introduction*. University of Georgia Press, 2006.

Strinati, Dominic. *An Introduction to the Theories of Popular Culture*. Routledge, 1995.

Web Resources

H-Net: Humanities, and Social Sciences OnLine. The Popular Culture Association and the American

Culture Association: Home Page (1999): <http://www.h-net.org/~pcaaca/>

Popular Culture: Resources for Critical Analysis: <http://www.wsu.edu/~amerstu/pop/>

Popular Culture: http://www.ucalgary.ca/applied_history/tutor/popculture/

University of Iowa: www.uiowa.edu/~commstud/resources/POP-Culture.html

Springer Link: www.springerlink.com

Rock Internet Resources: www.rockinternetresources.com

Bowling Green State University: www.bgsu.edu/departments/popc/

Question Paper Pattern

Q.1	An essay type question on Unit 1 with internal choice	16
Q.2	An essay type question on Unit 2 with internal choice	16
Q.3	An essay type question on Unit 3 with internal choice	16
Q.4	An essay type question on Unit 4 with internal choice	16
Q.5	An essay type question on Unit 5 with internal choice	16

Paper 12 B (Elective): Discourse Analysis

Rationale

The purpose of this course is to introduce MA students to major theoretical frameworks and current issues in discourse analysis and demonstrate the relevance and usefulness of discourse studies to the field of applied linguistics. To provide for the practical application of the course instruction, each participant is expected to conduct research on a particular topic in discourse analysis, using elicited or natural data collected during the semester. To this end, the following materials are to be covered.

Course Contents

Unit 1: What is Discourse Analysis?

- a. A Brief historical review, Form and Function, Speech Acts and discourse structures, Spoken discourse: Models of Analysis
- b. Conversations outside the classroom, Talk as a social activity, Written Discourse, text and interpretation, Larger Patterns in Text

Unit II: Discourse Analysis and Grammar& Vocabulary

- a. Introduction, Grammatical Cohesion and Textuality, Theme and reme, Tense and Aspect
- b. Introduction, Lexical cohesion, Lexis in Talk, Textual Aspects of Lexical Competence, Vocabulary and the organizing of text

Unit III: Discourse analysis and Phonology

- a. Introduction, Pronunciation, Rhythm, Word Stress and prominence, the Placing of Prominence
- b. The Intonational units, tones and their Meaning, Key, Pitch across the speakers

Unit IV: Spoken Language

- a. Introduction, Adjacency Pairs, Exchanges, Turn-taking, Transactions and topics
- b. Interactional and transactional talks, Stories, anecdotes and jokes, Other spoken discourse types, Speech and grammar

Unit V: Written Language

- a. Introduction, Text types, Speech and writing, Units in written discourse, Clause relations
- b. Getting to grips with larger patterns, Pattens and the learner, Culture and rhetoric, Discourse and the reader.

Prescribed text:

Michael McCarthy. *Discourse Analysis for Language Teachers*. Cambridge University Press , 2000.

Recommended Reading

Bhatia, V.J. (1993) *Analysing Genre: Language in Professional Settings*. England: Longman.

Bhatia, V.J. (2004) *Worlds of Written Discourse*. London: Continuum.

Blommaert, J. (2005). *Discourse*. Cambridge: Cambridge University Press.

Brown, G., and George Yule (1983). *Discourse Analysis*. Cambridge: Cambridge University Press.

Carter, R. (1997). *Investigating English Discourse*. London: Routledge.

Corcoran, J. (1971). Discourse Grammars and the Structure of Mathematical Reasoning I, II, and III, *Journal of Structural Learning* 3.

Gee, J. P. (2005). *An Introduction to Discourse Analysis: Theory and Method*. London: Routledge.

Deese, James. *Thought into Speech: The Psychology of a Language*. Century Psychology Series. Englewood Cliffs, New Jersey: Prentice Hall, 1984.

Halliday, M.A.K., and Greaves, W.S. (2008). *Intonation in the Grammar of English*, London, Equinox.

Halliday, M.A.K., and C.M.I.M. Matthiessen (2004). *An introduction to functional grammar*, 3d ed. London, Arnold

Jaworski, A. and Coupland, N. (eds). (1999). *The Discourse Reader*. London: Routledge.

Johnstone, B. (2002). *Discourse analysis*. Oxford: Blackwell.

Keller, R. (2011). The Sociology of Knowledge Approach to Discourse (SKAD). In: *Human Studies* 34 (1), 43-65.

Keller, R. (2013). *Doing Discourse Research. An Introduction for Social Scientists*. London: Sage

Kittredge, Richard & John Lehrberger. (1982.) *Sublanguage: Studies of language in restricted semantic domains*. Berlin: Walter de Gruyter.

Loriot, James and Barbara E. Hollenbach. 1970. "Shipibo paragraph structure." *Foundations of Language* 6: 43-66. The seminal work reported as having been admitted by Longacre and Pike. See link below from Longacre's student Daniel L. Everett.

Longacre, R.E. (1996). *The grammar of discourse*. New York: Plenum Press.

Miscoiu, S., Craciun O., Colopelnic, N. (2008). *Radicalism, Populism, Interventionism. Three Approaches Based on Discourse Theory*.

Renkema, J. (2004). *Introduction to discourse studies*. Amsterdam: Benjamins.

Schiffrin, D., Deborah Tannen, & Hamilton, H. E. (eds.). (2001). *Handbook of Discourse Analysis*. Oxford: Blackwell.

Stubbs, M. (1983). *Discourse Analysis: The sociolinguistic analysis of natural language*. Oxford: Blackwell

Teun A. van Dijk, (ed). (1997). *Discourse Studies*. 2 vols. London: Sage.

Potter, J, Wetherall, M. (1987). *Discourse and Social Psychology: Beyond attitudes and behaviour*. London: SAGE.

Underhill, James W. (2011). *Creating Worldviews: metaphor, ideology & language*, Edinburgh UP.

Underhill, James W. (2012). *Ethnolinguistics & Cultural Concepts: truth, love, hate & war*, Cambridge UP.

Question Paper Pattern:

Q.1	An essay type question on Unit 1 with internal choice	16
Q.2	An essay type question on Unit 2 with internal choice	16
Q.3	An essay type question on Unit 3 with internal choice	16
Q.4	An essay type question on Unit 4 with internal choice	16
Q.5	An essay type question on Unit 5 with internal choice to a practical written discourse	16

Paper 12 C (Elective): Subaltern Literature

Rationale

Subaltern Studies has brought about the most important and influential change in the historiography of South Asia, and particularly India in recent years. The present course represents an introduction to Subaltern Studies and the worldwide debates it has generated among scholars of history, politics and sociology. The objectives of the course are:

- To acquaint the students with the terms 'subaltern' and 'subaltern studies'.
- To acquaint the students with the subaltern theory and its applicability in the post colonial studies.
- To make the students aware of the subaltern politics by introducing close study of certain seminal texts.

Course Contents

Unit 1

- a) "A Brief History of Subalternity" by David Ludden (Introductory chapter from Reading Subaltern Studies *Critical History, Contested Meaning and the Globalization of South Asia* Edited by David Ludden)
- b) "Can the subaltern speak?" by Gayatri Chakravorty Spivak(from The Postcolonial Studies Reader edited by Bill Ashcroft, Gareth Griffiths and Helen Tiffin)

Unit 2

- a) Urmila Pawar's *The Weave of Life: Aaydaan*
- b) Laxman Mane's *Upura: An Outsider*

Unit 3

- a) Richard Wright's *Native Son*
- b) Tony Morrison's *The Bluest Eye*

Unit 4

- a) Vijay Tendulkar's *Kanyadaan*
- b) Mahasweta Devi's *Mother of 1084*

Unit 5:

- a) Chinua Achebe's *Things Fall Apart*
- b) Ngugi Wa Thiongo's *A Grain of Wheat*

Recommended Reading

Chaturvedi, Vinayak, ed., *Mapping Subaltern Studies and the Postcolonial*. London and New York: Verso, 2000.

Gramsci, Antonio *Selections from the Prison Notebooks*, ed. Quintin Hoare and Geoffrey Nowell Smith. New York: International Publishers, 1973.

Guha, Ranajit, and Gayatri Chakravorty Spivak, Eds. *Selected Subaltern Studies*. New York: Oxford University Press, 1989.

Rodríguez, Ileana (ed.), *The Latin American Subaltern Studies Reader*. Durham, NC: Duke University Press, 2001.

Devi, Mahasweta. *Imaginary Maps*. Translated by Gayatri Chakravorty Spivak. London & New York: Routledge, 1995

Spivak, Gayatri Chakravorty. *A Critique of Postcolonial Reason: Towards a History of the Vanishing Present*. Cambridge, Mass: Harvard UP, 1999

Menchu, Rigoberta. *I, Rigoberta Menchu*. London & New York: Verso, 1984

Question Paper Pattern

Q.1	An essay type question on Unit 1 with internal choice	16
Q.2	An essay type question on Unit 2 with internal choice	16
Q.3	An essay type question on Unit 3 with internal choice	16
Q.4	An essay type question on Unit 4 with internal choice	16
Q.5	An essay type question on Unit 5 with internal choice	16

Paper 13: Advanced Critical Theory

Rationale

The objective of this course is to acquaint the student with the contemporary developments in critical theory. A knowledge of these theories can enable a student to apply the theories to literary texts and moreover, to carry out a reflective assessment of literature, society, and culture. The most significant theories have been surveyed to bring out the diversity between different ideologies and critical methods. This type of overview can help the learner for orientation to the critical practices carried out in the contemporary era.

Course Contents

Unit 1

- a) New Criticism, moral formalism and F R Leavis
- b) Russian Formalism and the Bakhtin School

Unit 2

- a) Reader oriented theories
- b) Structuralist Theories

Unit 3

- a) Marxist Theories
- b) Feminist Theories

Unit 4

- a) Poststructuralist Theories
- b) Postmodernist Theories

Unit 5

- a) Postcolonialist Theories
- b) Post-theory

Prescribed Text: *A Reader's Guide to Contemporary Literary Theory* (fifth edition) by Raman Seldon, Peter Widowson, Peter Brooker. Harlow: Pearson Education Ltd, 2005.

Recommended Reading

Adorno, T. W., with Max Horkheimer. *Dialectic of Enlightenment*. Trans. Edmund Jephcott. Stanford: Stanford UP, 2002.

Arac, Jonathan. *Critical Genealogies: historical Situations for Postmodern Literary Studies*, New York: Columbia University press, 1987.

Barthes, Roland, *S/Z* (Translated by Miller) London: Jonathan cape, 1975.

Bloom, Harold . *The Anxiety of Influence*, New York: O.U.P.

Brandom, R.. *Making It Explicit*. Cambridge: Harvard University Press, 1994.

Brooks, Cleanth. *The well wrought urn*, New York: Harcourt Brace, 1947

Coyle, Martin et al (eds) *Encyclopedia of Literature and Criticism*, London; Routledge, 1991

Culler, Jonathan. *Structuralism Poetics: structuralism, Linguistics, and the study of Literature*, London: Rutledge & Kegan Paul, 1975

D. Hiley, J. Bohman and R. Shusterman.(eds.) *The Interpretive Turn*, ed. Ithaca: Cornell University Press, 1991.

Eagleton Terry. *Against the Grain*, London: Faber and Faber, 1928

Fish, Stanley. *Doing what comes naturally: Change, Rhetoric, and the practice of theory in Literary and legal studies*, new york: O.U.P, 1989

Gadamer , H.G. *Truth and Method*, London : Sheed & Ward, 1975

Genette, G. *Narrative Discourse : An Essay in Method*, Ithaca : cornell University Press, 1979.

Geuss ,Raymond. *The Idea of a Critical Theory. Habermas and the Frankfurt School*. Cambridge University Press, 1981.

Habermas, J. *The Philosophical Discourse of Modernity*, Cambridge L Polity Press 1987

Horkheimer, Max: *Critical Theory: Selected Essays*. Translated by Matthew J. O'Connell and others. New York: Continuum, 1982.

----. *Critical Theory*. New York: Seabury Press,1982.

Hutcheson, Linda . *A Poetics of Postmodernism*, London : Routledge, 1987.

Jones ,R.W.(ed)*Critical Theory and World Politics*. London: Lynne Reinner,2001.

Kermode, Frank . *The sense of an Ending*, New york : O U P ,1969

Leavis, F.R. *The Common pursuit*, London: chatto and windus, 1952

M. Friedman (ed.)*Feminism in a Global Society*. Oxford: Oxford University Press,2004.

Macherey , Pierre. *A Theory of Literary Production*, London: Routledge and kegan paul , 1978

Marcuse, H. *Negations*. Boston: Beacon Press, 1969.

McCarthy, T. and D. Hoy. *Critical Theory*. London: Basil Blackwell, 1994.

Putnam, H. *Words and Life*. Cambridge: Harvard University Press, 1994.

Rawls, J. *Collected Papers*.Cambridge: Harvard University Press,1999.

Rorty, Richrd. *Consequences of pragmatism, Minneapolis*: University of Minnesota press, 1982.

Sprinker, Michel. *Imaginary Relations: Aesthetics and Ideology in the Theory of Historical Materialism* London : Verso, 1987.

Willard ,Charles Arthur. *Liberalism and the Problem of Knowledge: A New Rhetoric for Modern Democracy*. University of Chicago Press. 1996.

----, *A Theory of Argumentation*. University of Alabama Press. 1989.

----, *Argumentation and the Social Grounds of Knowledge*. University of Alabama Press. 1982.

Web Resources

www.critical-theory.com/

en.metapedia.org/wiki/Critical_theory

<http://www.oac.cdlib.org/findaid/ark:/13030/tf5q2nb391/>

http://www.princeton.edu/~achaney/tmve/wiki100k/docs/Critical_theory.html

Question Paper Pattern

Q.1	An essay type question on Unit 1 with internal choice	16
Q.2	An essay type question on Unit 2 with internal choice	16
Q.3	An essay type question on Unit 3 with internal choice	16
Q.4	An essay type question on Unit 4 with internal choice	16
Q.5	An essay type question on Unit 5 with internal choice	16

Paper 14: Indian Literature in English Translation

Rationale

Generally acknowledged as one of the oldest in the world, Indian Literature has been written over the millennia in numerous regional languages. The aim of this course is to introduce the student to the rich tradition of Indian literature through the medium of translated texts and a brief overview of Indian literary history. The texts range from the ancient to the modern times. The student shall be able to critically appreciate some of the most seminal works through the study of this course.

Course Contents

Unity I

- a. Introduction to Indian Literature, Vedic Literature, Indian Epic Poetry
- b. Sanskrit Literature, Buddhist Literature, Urdu Literature

Unit II

- a. Kalidas : *Malavikagnimitra*
- b. Jataka Tales:
 - i) The Ass in the Lion's Skin,
 - ii) The Jackal and the Crow,
 - iii) The Jackal and the Otters,
 - iv) The Lion and the Woodpecker,
 - v) The Ox who envied the Pig,
 - vi) The Swan with Golden Feathers,
 - vii) The Turtle who couldn't stop talking,
 - viii) Vessantara Jataka

Unit III

- a. Mirza Ghalib:
 - i) Yeh Na Thi Hamari Qismat,
 - ii) Hazaaron Khwahishen Aisi
 - iii) Ibn-e-Mariam Hua Kare Koi,
 - iv) Aah Ko Chaahiye Ik Umar Asar hone Ke liye,
 - v) Dard Minnat Kash-e-Dava na huaa,
 - vi) Dil-e-Naadan Tuze Hua Kya Hai

(English translation available on

www.columbia.edu/itc/mealac/pritchett/00ghalib/ghazal_index.html)

- b. Meerabai:
 - i) Hari main to dard divani
 - ii) Nahi aiso janam barambar

iii)Saamp pitaro Rana Bhejyo

iv)Mere to Giridhar Gopal

v) Patian main kaiso likhoon

vi)Pag ghungaroo bandh Meera naci re

(English translation available on-
<http://www.oocities.org/worldwidetechnologies/>)

Unit 1V

- a. Premchand : *Godan*, tr.P.Lal and Jai Ratan, Jaico,1957
- b. U. R. Ananthmurthy, *Samskara*

Unit V

- a. Vijay Tendulkar : *Silence, The Court is in Session*,tr. Priya Adarkar, O.U.P., 1978.
- b. Badal Sarkar : *Evam Indrajit: Three-act Play*. tr. by Girish Karnad. Oxford University Press. 1975.

Prescribed Text (for Unit I):

P.K.Sinha and Jagadish K. Ghosh. 2011. *History of Indian Literature*. Commonwealth Publishers: New Delhi.

Recommended Reading

Chanda, Ipshtita. *Historiography*. Kolkata: Department of Comparative Literature, Jadavpur University. 2004

Das, Sisir Kumar. *A History of Indian Literature 1800-1910 ;Western Impact: Indian Response*. New Delhi: Sahitya Akademi. 1991

Devy. G.N. *Of Many Heroes: An Indian essay in Literary Historiography*. New Delhi: Orient Longman, 1998

Gupta, Prakash Chandra. *Makers of Indian Literature: Prem Chand*. Sahitya Akademi. 1998

Madge, V.M. *Vijay Tendulkar's Plays: An Anthology of Recent Criticism*. *Pencraft International*. 2007.

Roy, Pinaki. “*The First Man of the Third Theatre: Badal Sircar*”. *Insights into Indian English Fiction and Drama*. Ed. Nawale, A. New Delhi: Access-Authors Press
----*Crusader against Hegemonies: A Brief Study of Badal Sircar*”. *Contemporary Indian Drama in English: Trends and Issues*. Ed. Sarkar, J. New Delhi: Delta Book World, 2013

Orsini ,Francesca (2004). *The Oxford India Premchand*. Oxford University Press,2000.

Rai ,Amrit; Harish Trivedi *Premchand: his life and times*. Oxford University Press. 1991

Sigi ,Rekha. *Munshi Prem Chand*. Delhi:Diamond,2006

Winternitz , Moriz. *A History of Indian Literature*.Delhi:Motilal Banarsidas,1996.

Question Paper Pattern:

Q.1	An essay type question on Unit 1 with internal choice	16
Q.2	An essay type question on Unit 2 with internal choice	16
Q.3	An essay type question on Unit 3 with internal choice	16
Q.4	An essay type question on Unit 4 with internal choice	16
Q.5	An essay type question on Unit 5 with internal choice	16

Paper 15: New English Literatures

Rationale

This course deals with what is called as the ‘New English Literatures’ indicating the writings that emerged in former British colonies such as: parts of Africa, Australia, New Zealand, Canada, Caribbean countries, India, , Pakistan, Bangladesh ,Malaysia, Malta, Singapore, islands in the South Pacific, and Sri Lanka. It can also be termed as the postcolonial literature but as the critics have not yet agreed upon an acknowledged and recognized definition of the term postcolonial, and as there is an ongoing debate concerning the terminology and what exactly postcolonialism means, the present title of ‘New Literatures ‘ seems more apt. However, in order to understand the concept of ‘New Literatures’ it is necessary to be familiar with colonialism which is associated with the expansion of the European imperial power. After decolonization, this literature is considered as critical reflection of colonial experience. In general, the authors here look for a distinctive national/cultural identity and independence. Among other things, the use of English language for expressing their diverse concerns is a remarkable feature that binds together the literatures from different nations in postcolonial era. The course aims at providing an insight into how the dominant language and its discursive forms are appropriated to express widely differing cultural experiences.

Course Contents

Unit 1

- a) *Decolonizing the Mind*: Nguigi wa Thiong’o
- b) “Re-thinking the post-colonial”: Bill Ashcroft, Gareth Griffiths, Helen Tiffin
(from *The Empire Writes Back: Theory and Practice in Post Colonial Literatures*)

Unit 2

- a) *The Schooner Flight*: Derek Walcott
- b) *Rough Passage R.*: Parthasarathy

Unit 3

- a) *The English Patient*: Michael Ondaatje
- b) *The Reluctant Fundamentalist* : Mohsin Hamid

Unit 4

- a) i-*The Bear Came over the Mountain*, ii-*Runaway*: Alice Munro
- b) i) *Bliss* ii) *Miss Brill*: Katherine Mansfield

Unit 5

- a) *Anowa*: Ama Ata Aidoo
- b) *The Lion and the Jewel*: Wole Soyinka

Recommended Reading

Bhabha ,Homi, *The Location of Culture*’, Routledge 1994

Benson ,Eugene and Conolly ,L. W. (eds.), *Encyclopedia of Post-Colonial Literatures in English*, 1994, 2005.

Döring ,Tobias, *Postcolonial Literatures in English: An Introduction*, 2008.

Hashmi,,Alamgir *The Commonwealth, Comparative Literature and the World*, 1988.

----*Commonwealth Literature: An Essay Towards the Re-definition of a Popular/Counter Culture*, 1983.

Hashmi ,Alamgir, Boehmer and Elleke, *Colonial and Postcolonial Literature: Migrant Olinde Olinde* ,Britta, *A Sense of Place: Essays in Post-Colonial Literatures*

McLeod ,John, *Beginning Postcolonialism*, second edition (MUP, 2010).

Poddar ,Prem and David Johnson, *A Historical Companion to Postcolonial Literature in English*, 2005.

Thieme ,John, *The Arnold Anthology of Post-Colonial Literatures in English*

Thompson ,Peter, *Littérature moderne du monde francophone*. Chicago: NTC (McGraw-Hill), 1997

Web Resources

<http://www.soas.ac.uk/literatures/>

<http://www-sul.stanford.edu/depts/ssrg/africa/lit.html>

<http://setis.library.usyd.edu.au/oztexts/ozlit.html>

a.rutgers.edu/~jlynch/Lit/other.html#Literary Resources - Other National Literatures.

www.english-literature.uni-bayreuth.de/.../Literature...new.../index.html

<https://www.philhist.uni-augsburg.de/en/lehrstuehle/anglistik/nelk/>

public.wsu.edu/~brians/anglophone/postcolonial.html

Question Paper Pattern

Q.1	An essay type question on Unit 1 with internal choice	16
Q.2	An essay type question on Unit 2 with internal choice	16
Q.3	An essay type question on Unit 3 with internal choice	16
Q.4	An essay type question on Unit 4 with internal choice	16
Q.5	An essay type question on Unit 5 with internal choice	16

Paper 16 A (Elective): Cultural Studies

Rationale

The study of Cultural Studies is an ever-evolving academic and intellectual project. Cultural Studies is a body of theory generated by thinkers who regard the production of theoretical knowledge as just a political practice, while for others it is a serious scholastic and intellectual exercise. Cultural studies aims at making an academic and intellectual enquiry into the rich and varied complexities of diverse social, cultural, ethnic and linguistic groups. The study of Cultural Studies is a discursive formation, that is, a cluster or formation of ideas, images, and practices which provide ways of enquiry into the problems of life in a globalized context. In Cultural Studies, knowledge is never a neutral or objective phenomenon but a matter of positionality, that is, of the place from which one speaks and views life around.

The discipline of Cultural Studies emerged during the 1950s when Raymond Williams made an attempt to link culture with contemporary society. As a critical discourse, Cultural Studies tries to challenge the hierarchies of traditional literary theories. Ideologically speaking, this discourse attempts a dialogue between margin and centre by foregrounding the cultural objects of mass culture. The objectives of the present course are

- To enable the students to appreciate the benefits of an interdisciplinary approach to understand multiculturalism and pluralism,
- To introduce the students with the issues of race, colonialism, imperialism, nationalism, politics, regional and cultural identities, class and gender which are generally examined in the study of Cultural Studies,
- To enable the students to perceive the importance of multicultural and multilingual communication for self-navigation in the globalized, pluralistic climate,
- To encourage the students to study and celebrate the reality of racial, ethnic, cultural, and linguistic diversity which is a prominent feature of the contemporary globalized society,
- To inculcate the discipline of comparative thinking by offering the study of diverse cultural forms, and thereby establish a foundation for comparative thinking.

Course Contents

Unit1:

- a) Cultural studies: an introduction: John Storey
- b) The evolution of cultural studies: Colin Sparks

Unit2:

- a) Cultural studies: two paradigms: Stuart Hall
- b) The Centre for Contemporary Cultural Studies: Michael Green

Unit3:

- a) Scattered Speculations on the Question of Cultural Studies: Gayatri Chakravorty Spivak

b) The Postcolonial and the Postmodern: the Question of Agency: Homi K. Bhabha

Unit4:

- a) The Culture Industry: Enlightenment as Mass Deception: Theodor Adorno and Max Horkheimer
- b) Dominici, or The Triumph of Literature: Roland Barthes

Unit5:

- a) Putting Policy Into Cultural Studies: Tony Bennett
- b) Political Economy and Cultural Studies: Nicholas Garnham

Prescribed Texts:

1. John Storey(ed). 1997. *What is Cultural Studies? A Reader*. London: Arnold
2. Simon During(ed). 2001. *The Cultural Studies Reader*. London: Routledge

Recommended Reading:

Achebe, Chenua *Hopes and Impediments Selected Essays*. Heinaman. 1988.

Ashcroft Bill, Griffiths and Helen Tiffin, *The Empire Writes Back: Theory and Practice in Postcolonial Literature*. London: Rutledge, 1989.

---eds. *The Postcolonial Studies Reader* London: Routledge, 1994

Bhabha, Homi K. *The Location of Culture*. New York: Routledge, 1990.

Ghassan, Hage, *Against Paranoid Nationalism: Searching for hope in a shrinking society*, NSW, 2003.

Hall, Stuart. *Representation: Cultural Representations and Signifying Practices*, London: Thousand Oakks, New Delhi: Sage Publications, 1997.

Kermode, Frank. *History and Value*. Oxford: Clarendon press 1986.

Kauffman, Linda. *Theory and Gender*. Oxford , New York Basil Blackwell, 1989

Marilyn Butler. *Rethinking Historicism*. Oxford: Basil Blackwell, 1989

Said, Edward. *Orientalism*. Rutledge & Kegan Paul, 1978.

Question Paper Pattern

Q.1	An essay type question on Unit 1 with internal choice	16
Q.2	An essay type question on Unit 2 with internal choice	16
Q.3	An essay type question on Unit 3 with internal choice	16
Q.4	An essay type question on Unit 4 with internal choice	16
Q.5	An essay type question on Unit 5 with internal choice	16

Paper 16 B (Elective): Special Authors

R. K. Narayan and G. B. Shaw

Rationale:

This course aims at a detailed study of some significant literary works by two of the most notable writers: G. B. Shaw and R.K. Narayan. Narayan was the author who actually made the Indian English Writing popular in the western world. The plays by Shaw have been widely studied but this course also includes his fiction. In this way a deep critical study of these writers can give the student a comprehensive idea about the literary genius of these two writers.

Course Contents

Unit 1: R. K. Narayan

- a) *The English Teacher*
- b) *The Vendor of Sweets.*

Unit 2: G. B. Shaw

- a) *The Irrational Knot*
- b) *Love among the Artists*

Unit 3: R. K. Narayan

- a) *Swami and his Friends*
- b) *My Days.*

Unit 4: G.B. Shaw.

- a) *Arms and the man*
- b) *Candida*

Unit 5:

- a) R. K. Narayan: i) *Under the Banyan Tree*
ii) *The Grandmother's Tale.*
- b) G. B.Shaw: i) *The Black Girl in search of God*
ii) *The Miraculous Revenge*

Recommended Reading

Brown, G.E. *George Bernard Shaw*. Evans Brothers Ltd, 1970

Evans, T.F. *Shaw: The Critical heritage*. The Critical Heritage series. Routledge & Kegan Paul, 1976

Gibbs, A.M. *Bernard Shaw, A Life*. University of Florida Press, 2005.

Henderson, Archibald. *Bernard Shaw: Playboy and Prophet*. D. Appleton & Co., 1932.

- Kain, Geoffrey. *R.K. Narayan : contemporary critical perspectives*. Michigan State University Press. 1993.
- Khatri, Chotte Lal. *RK Narayan: Reflections and Re-evaluation*. Sarup & Son, 2008.
- Ohmann, Richard M. "Shaw: The Style and the Man". Wesleyan University Press, 1962.
- Peters, Sally. *Bernard Shaw: The Ascent of the Superman*. Yale University Press, 1996.
- Pousse, Michael. *R. K. Narayan: A Painter of Modern India, Vol. 4*. Lang, Peter Publishing. 1995.
- Prasad, Amar Nath . *Critical response to R.K. Narayan*. Sarup & Sons. 2003.
- Rao, Ranga .*R.K. Narayan*. Sahitya Akademi. 2004.
- Smith, J. Percy. *Unrepentant Pilgrim: A study of the development of Bernard Shaw*. Victor Gollancz Ltd, 1965
- Sundaram, P. S.. *R.K. Narayan as a Novelist*. B.R. Pub. Corp.1988.
- Walsh, William . *R.K. Narayan: a critical appreciation*. University of Chicago Press. 1982.
- Weintraub, Stanley. *Bernard Shaw 1914–1918: Journey to Heartbreak*. Routledge & Kegan Paul, 1973.
- Wilson, Colin. *Bernard Shaw: A Reassessment*. Athenum, 1969.

Question Paper Pattern

Q.1	An essay type question on Unit 1 with internal choice	16
Q.2	An essay type question on Unit 2 with internal choice	16
Q.3	An essay type question on Unit 3 with internal choice	16
Q.4	An essay type question on Unit 4 with internal choice	16
Q.5	Short notes on Unit 5 with internal choice (2 out of 4)	16

Paper 16 C (Elective): Cinematic Representations of Literature

Rationale

After the invention of cinema, many texts from the literary field have been adapted to this powerful medium. The contemporary age is described as an age of visual culture. This course is aimed at gaining an understanding of the complex relationship between film and literature in their cultural and historical contexts, and as socio-cultural processes engaging with issues of representation, production and consumption. The course examines the interaction between film, film theory, literature and literary theory in its various aspects. Selected works of fiction and plays are analyzed in relation to film versions of the same works in order to obtain an insight of the possibilities and problems involved in the process of the transposition of literary works to film. The works selected for study range from the earliest form of literature-mythology to the most contemporary genres like the horror and sci-fi to provide sufficient examples of cinematic adaptation. The students are expected to develop an understanding of critical analysis of film through careful examination of cinematic adaptations of literary texts, focusing on character development, dramatic structure, and performance. Although a single cinematic adaptation of one literary work is selected for close study, the discussions of other adaptations of the same work are also expected to be included in the critical explorations.

Course Contents

Unit 1:

- a) "Beginning to Theorize Adaptation"- Linda Hutcheon (Chapter 1 from *A Theory of Adaptation*)
- b) "Introduction to Film Studies"-Amy Villarejo (Chapter 1 from *Film Studies: The Basics*)

Unit 2:

- a) *The Gospel of John* adapted as "The Gospel of John"(2003) Dir.- Philip Saville, Writer- John Goldsmith.
- b) *The Iliad* by Homer adapted as "Troy"(2004) Dir. -Wolfgang Peterson, Writer-David Benioff

Unit 3:

- a) *Romeo and Juliet* by William Shakespeare adapted as "Romeo+Juliet"(1996) Dir. Baz Luhrmann Writer- Craig Pearce and Baz Luhrmann
- b) *Pygmalion* by G.B.Shaw adapted as "My Fair Lady"(1964) Dir.-George Cukor, Writer -Alan Jay Lerner

Unit 4:

- a) *Do Androids Dream of Electric Sheep* by Philip K. Dick adapted as "Blade Runner"(1982) Dir.-Ridley Scott, Writers-Hampton Fancher and David Peoples
- b) *Schindler's Ark* by Thomas Keneally adapted as "Schindler's List"(1993) Dir.-Steven Spielberg, Writer- Steven Zaillian

Unit5:

- a) *Psycho* by Robert Bloch adapted as "Psycho"(1960) Dir.-Alfred Hitchcock, Writer-Joseph Stefano

b) *Pride and Prejudice* by Jane Austen adapted as “Pride and Prejudice”(2005) Dir.-Joe Wright, Writer-Deborah Moggach

Recommended Reading

- Abel, Marco. *Violent Affect : Literature, Cinemas & Critique after Representation*. Lincoln : Univ. of Nebraska Press, 2007.
- Boozler, Jack ed. *Authorship in Film Adaptation*. Austin : Univ. of Texas Press, 2008.
- Braendlin, Hans P. *Ambiguities in Literature and Film*. Tallahassee : Univ. of Florida Press, 1988.
- Buhler, Stephen. *Shakespeare in the Cinema*. Albany : State Univ of N.Y. Prem, 2002.
- Burgoyne, Robert. *The Epic Film in World Culture*. New York : Routledge, 2011.
- Cartmel, Deborah et al eds. *Classics in Film and Fiction*. London : Pluto Press, 2000.
- Grace, Pamela. *The Religious Filme*. Chichester : Wiley Blackwell, 2009.
- Humphries – Brooks, Stephenson. *Cinematic Savior*. Westport : Praeger, 2006.
- Hutcheon, Linda. *A Theory of Adaptation*. New York : Routledge, 2007.
- Jackson, Russell ed. *The Cambridge Companion to Shakespeare on Film*. Cambridge : C UP, 2007.
- Kelly, Andrew. *Cinema and the Great War*. New York : Routledge, 1997.
- Kolker, Robert ed. *Alfred Hitchcock’s Psycho : A Casebook*. Oxford : OUP, 2004.
- Leitch, Thomas. *Film Adaptation and Its Discounts*. Baltimore : Johns Hopkins Univ. Prers, 2007.
- Mirzoeff, Nicholas ed. *The Visual Culture Reader*. London : Routledge, 1999.
- O’Pray, Michael. *Film, Form and Phantasy*. New York : Palgrave, 2004.
- Pepperell, Robert and Punt, Michel eds. *Screen Consciousness*. New York : Rodopi, 2006.
- Snyder, Mary H. *Analyzing Literature – to – Film Adaptations*. New York : Continuum, 2004.
- Staley, Jeffrey and Walsh, Richard. *Jesus, the Gospels and Cinematic Imagination*. London: Westminster John Knox Press, 2007.
- Stam Robert and Raengo Alessandra eds. *Literature and Film*. Oxford : Wiley Blackwell, 2003.
- Szumskyj, Benjamin ed. *The man who collected Psychos*. London : Mc Farland & Co., 2009.
- Tibbetts, John and Welsh, James M. eds. *The Encyclopedia of Novels into Film*. New York : Facts on File Inc, 2005.
- Villarejo, Amy. *Film Studies, the Basics*. Oxon : Routledge, 2007.

. Question Paper Pattern

Q.1	An essay type question on Unit 1 with internal choice	16
Q.2	An essay type question on Unit 2 with internal choice	16
Q.3	An essay type question on Unit 3 with internal choice	16
Q.4	An essay type question on Unit 4 with internal choice	16
Q.5	An essay type question on Unit 5 with internal choice	16



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ

नांदेड— ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY

NANDED-431606, MAHARASHTRA STATE, INDIA.

Established on 17th September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



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संलग्नित महाविद्यालयातील सी.बी.सी.एस.
पॅटर्नचा एम.ए. इतिहास (प्रथम व द्वितीय
वर्ष) अभ्यासक्रम शैक्षणिक वर्ष
२०१६-१७ पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक १२ मे २०१६ रोजी संपन्न झालेल्या ३६व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.१०/३६-२०१६ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील सामाजिक शास्त्रे विद्याशाखेतील खालील विषयाचा सी.बी.सी.एस. पॅटर्नचा अभ्यासक्रम शैक्षणिक वर्ष २०१६-१७ पासून लागू करण्यात येत आहे.

१. एम.ए. इतिहास (प्रथम व द्वितीय वर्ष))

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक(१)/परिपत्रक/पदव्युत्तर—सीबीसीएस अभ्यासक्रम/

२०१६-१७/१००९

दिनांक : २५.०८.२०१६.



स्वाक्षरित/—

संचालक

महाविद्यालय व विद्यापीठ विकास मंडळ

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. परीक्षा नियंत्रक यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

SWAMIRAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

**Revised Syllabus of History
CBCS & Semester Pattern
Effective From June - 2016.**

M.A. Second Year - History - Semester - III

Paper - IX	History of Modern India (1757 - 1947 A.D.)	100 Marks
	OR	
Paper - X	Social Reformers in Maharashtra India after Independence (1947-1966 A.D.)	100 Marks
	OR	
Paper - XI	History of Modern Maharashtra History of Maratha (1630- 1707 A.D.)	100 Marks
	OR	
Paper - XII	History of U.S.A. (1901 to 1945 A.D.) World in 20 th Century	100 Marks
	OR	
	Tourism	

M.A. Second Year, History - Semester - IV

Paper - XIII	History of Modern India (1757 - 1947 A.D.)	100 Marks
	OR	
Paper - XIV	Social Reformers in Maharashtra India after Independence (1966-1990 A.D.)	100 Marks
	OR	
Paper - XV	History of Modern Maharashtra History of Maratha (1707- 1818 A.D.)	100 Marks
	OR	
Paper - XVI	History of U.S.A. (1945 to 2001 A.D.) World in 20 th Century	100 Marks
	OR	
	Tourism	
Project Report		100 Marks

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Revised Syllabus of History

M.A. Second Year

Semester - III, Paper - IX

History of Modern India (1757-1947A.D.)

Marks : 100 (Theory : 75 Marks : Internal Assessment : 25 Marks)

1. Establishment of British Rule in India

Advent of the European Powers, Wars against major Indian powers, Policy of subsidiary alliance, Doctrine of Lapse, Structure of British Raj upto 1857.

2. Socio-Cultural Changes

Contacts with christian missions, Comming of English education and Press, Educational Policy of British Govt.

3. Socio-religious reform movements :

Brahmo Samaj, Prarthana Samaj, Satyashodhak Samaj, Arya Samaj, Depressed classes Mission, Reform movements among the Sikhs and the Muslims, Non Brahmin movement and Justice party, Socio - religious movements and its impact on Society.

4. Reforms under British rule (1818-1857)

Railway, Post and Telegraph, Industries, Land reforms.

5. Popular resistance to company's rule

Early uprisings, Revolt of 1857 - Causes, Course and effects.

Semester - IV, Paper - XIII

History of Modern India (1757-1947 A.D.)

Marks : 100 (Theory : 75 Marks : Internal Assessment : 25Marks)

1. Emergence and growth of Indian nationalism

Formation of National Associations, Foundation of Indian National congress, The moderate phase, Growth of extremist, Morley - Minto reforms, Home rule movement, Lucknow pact, Mont-Ford reforms.

2. National Movement in Gandhi Era :

Gandhiji's leadership and ideology of resistance, Gandhion mass movements- Non - Co-operation, Civil Disobedience, Individual Satyagraha, Quit India movement, Gandhi and removal of untouchability.

3. Muslim Politics and national movement :

Sir Sayyed Ahmad Khan and Aligarh movement, Muslim League and Ali Brothers, Md.Iqbal, Md. Ali Jinnah.

4. National movement and other party's

Unionist party and Krishak Praja Party, Politics of Hindu Mahasabha, Communists and the Indian freedom struggle, Congress socialist party, Women in the national movement.

5. Revolutionary movement

Maharashtra, Bengal, Panjab, Madras, Azad Hind Sena.

Books for reference

- १) कठारे अनिल, आधुनिक भारताचा इतिहास, (१७५७-१८५७)जळगाव, प्रशांत पब्लिकेशन्स, २०१३
- २) कठारे अनिल, भारतीय स्वातंत्र्य चळवळीचा इतिहास, प्रशांत पब्लिकेशन्स, जळगाव २०१३.
- ३) कठारे अनिल, ब्रिटिशकालीन भारताचा इतिहास, एज्युकेशनल पब्लिकेशर्स अँड डिस्ट्रीब्युटर्स, औरंगाबाद, २०१४.
- ४) आचार्य धनंजय, आधुनिक भारत (१७५७-१९७१), साईनाथ प्रकाशन, नागपूर, २०११.
- ५) खोबरेकर वि.गो., महाराष्ट्रातील स्वातंत्र्य लढे, मुंबई, म.रा.सा. व संस्कृति मंडळ, १९९४.
- ६) कोठेकर शांता व वैद्य सुमन, आधुनिक भारताचा इतिहास (३ खंड), नागपूर, साईनाथ प्रकाशन,
- ७) पवार जयसिंगराव, भारतीय स्वातंत्र्य चळवळीचा इतिहास, निराली प्रकाशन, पुणे, २०१३.
- ८) डॉ. सातभाई श्रीनिवास, आधुनिक भारताचा इतिहास, विद्या बुक्स पब्लिशर्स, औरंगाबाद, २०१४.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Revised Syllabus of History

M.A. Second Year

Semester III, Paper - IX

OR Paper - Social Reformers in Maharashtra

Marks : 100 (Theory : 75 Marks : Internal Assessment : 25 Marks)

- | | |
|-----------------------------------|------------------------------|
| 1. Jagannath Shankar Sheth | 6. Mahatma Jyotirao Phule |
| 2. Acharya Balshastri Jambhekar | 7. Savitribai Jyotirao Phule |
| 3. Dadoba Pandurang Tarkhadkar | 8. Baba Padmanji |
| 4. Lokhitwadi Gopal Hari Deshmukh | 9. Gopalbaba Valangkar |
| 5. Dr. Bhau Daji Lad | 10. Mahadev Govind Ranade |
-

Semester IV, Paper - XIII

OR Paper - Social Reformers in Maharashtra

Marks : 100 (Theory : 75 Marks : Internal Assessment : 25 Marks)

- | | |
|--------------------------------|--------------------------|
| 1. Gopal Ganesh Agarkar | 2. Dhondo Keshav Karve |
| 3. Pandita Ramabai. | 4. Vitthal Ramji Shinde |
| 5. Sayajirao Gaikwad | 6. Shivram Janba Kamble |
| 7. Rajarshi Shahu Maharaj | 8. Keshav Sitaram Thakre |
| 9. Sant Gadge Maharaj | |
| 10. Dr. Bhimrao Ramji Ambedkar | |

Books for Reference

1. डॉ. कठारे अनिल, महाराष्ट्रातील समाजसुधारक, विद्या बुक्स पब्लिशर्स, औरंगाबाद, २०१४.
- २) गरुड अण्णासाहेब व सावंत बी.बी., महाराष्ट्राच्या समाजसुधारणेचा इतिहास, कैलास पब्लिकेशन्स, औरंगाबाद, १९९५.
- ३) डॉ. कोंडेकर आर.एस., रयतेचा राजा राजर्षी शाहू महाराज, अरुणा प्रकाशन, लातूर, २०११.
- ४) रगडे सुभाष, समाजसुधारक, एज्युकेशनल पब्लिशर्स अॅन्ड डिस्ट्रीब्युटर्स, औरंगाबाद, २०१४.
- ५) डोंगरे वसंत, डॉ. बाबासाहेब आंबेडकर आणि इतिहास मीमांसा, देवयानी प्रकाशन, मुंबई, २०१४.
- ६) भांड बाबा, संभाजीराव गायकवाड, साकेत प्रकाशन, औरंगाबाद, २०१५.
- ७) सहस्त्रबुध्दे पु.ग., लोकहितवादीची शतपत्रे, कॉन्टिनेन्टल प्रकाशन, पुणे, २००४.
- ८) ठाकरे प्रबोधनकार, माझी जीवनकथा, नवता बुक वर्ल्ड, मुंबई, २०१३.

Marks : 100 (Theory : 75 Marks : Internal Assessment : 25 Marks)

1. Indian Constitution

Making of Constitution and Salient features of Constitution.

2. Internal Policy of Pandit Nehru

Social and Economic Development, Education, States reorganisation commission, Goa freedom struggle.

3. Foreign Policy of Pandit Nehru.

Relations with Pakistan, China, Russia and America, Nehru and Non - alignment movement.

4. Lal Bahadur Shastri

Internal Policy, War of India - Pakistan and Tashkent Pact.

Semester IV, Paper - XIV

India after Independence (1966 - 1990 A.D.)

Marks : 100 (Theory : 75 Marks : Internal Assessment : 25 Marks)

1. Internal Policy of Indira Gandhi.

Indira Gandhi and Syndicate, Domestic and Economic policy, Emergency, Assam and Panjab Problems.

2. Foreign policy of Indira Gandhi.

Relation with Pakistan, China, America, Russia and Britain, Indira Gandhi and Non - Alignment movement.

3. Janta Govt.

Internal policy, failure of Janta Govt.

4. Rajiv Gandhi and V.P. Singh

Internal and foreign policy.

Books for Reference

- १) डॉ. वैद्य सुमन व डॉ. कोठेकर शांता, आधुनिक भारताचा इतिहास. (१९४७ - २०००), श्री साईनाथ प्रकाशन, २०१३.
- २) कोलारकर शं.गो., स्वतंत्र भारताचा इतिहास, मंगेश प्रकाशन, नागपूर, १९९१.
- ३) डॉ. कठारे अनिल, आधुनिक भारताचा इतिहास, (१७५७-१९८४) कल्पना प्रकाशन, नांदेड, १९९८.
- ४) डॉ. आचार्य धनंजय, आधुनिक भारत, श्री साईनाथ प्रकाशन, नागपूर, २०११.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Revised Syllabus of History

M.A. Second Year

Semester III, Paper - X

OR Paper - History of Modern Maharashtra

Marks : 100 (Theory : 75 Marks : Internal Assessment : 25 Marks)

1. Maharashtra (1818-1857)

Education - Press - Railway, Post and Telegraph, Land reforms and official Social reforms Measures.

2. Socio-religious reform movements

Prarthana Samaj, Satyashodhak Samaj, Arya Samaj, Depressed Classes Mission,

3. Early Resistance to Colonial Rule

Ramosi, Bhill and Koli, Outbreak of 1857 and Maharashtra,

4. National Associations

The Bombay Association, Poona Sarvajanic sabha, Indian Servant Society.

5. The Indian National Congress

Foundation of Indian National Congress, The Moderate phase, Maharashtrian Moderate Leader's, Growth of extremist, Home rule Movement.

Semester IV, Paper - XIV

OR Paper - History of Modern Maharashtra

Marks : 100 (Theory : 75 Marks : Internal Assessment : 25 Marks)

1. National Movement in Gandhi Era.

Gandhiji's leadership and ideology of resistance, Gandhian mass movements- Non-co-operation, Civil Disobedience and Quit India Movement.

2. Revolutionary Movement

Vasudev Phadke, V. D. Sawarkar, P.M. Bapat, Madam Bhikaji Kama, V.G. Pingle, S.H. Rajguru, Anant Kanhere, Damodar, Balkrishna and Vasudev Chaphekar, Failure of Revolutionary Movement.

3. Educational works

Kramveer Bhaurao Patil, Dr.Panjabrao Deshmukh and Dr. Bapuji Salukhe.

4. Sanyukta Maharashtra movement

Dange S.A., Joshi S.M., Dhondge Keshavrao and Atre P.K.

5. Cultural Heritage of Maharashtra

1) **Performing Arts** - Dance, Drama, Films, Music and Folk arts, Lavani, Tamasha, Povada, Bharud and other folk dances.

2) **Visual Arts** - Architecture, Painting, Sculpture and Festivals.

Books for Reference :

- १) काळे भगवान (संपा.), संयुक्त महाराष्ट्र काल आणि आज, संकेत प्रकाशन, जालना, १९८७.
- २) डॉ. कठारे अनिल, आधुनिक महाराष्ट्राचा इतिहास, विद्या बुक्स पब्लिशर्स, औरंगाबाद, सुधारीत द्वितीय आवृत्ती जून २०१३.
- ३) डॉ. कठारे अनिल, जयक्रांतिकार भाई केशवरावजी धोंडगे, अक्षरलेणं प्रकाशन, सोलापूर, २०१३.
- ४) डॉ. कुलकर्णी विजय, भारतीय स्वातंत्र्य लढ्यातील महाराष्ट्रीय सशस्त्रता, विद्या प्रकाशन, नागपूर, २०१२.
- ५) डॉ. साळवे दिपा, आधुनिक महाराष्ट्राचा इतिहास, एज्युकेशनल पब्लिशर्स अॅन्ड डिस्ट्रीब्युटर्स, औरंगाबाद, २०१३.
- ६) डॉ. कोंडेकर आर.एस., डॉ. भद्रे एन.जी., प्रा. साईनाथ शेटोड, आधुनिक महाराष्ट्राचा इतिहास, चिन्मय प्रकाशन, औरंगाबाद, २०११.
- ७) डॉ. गाठाळ साहेबराव, आधुनिक महाराष्ट्राचा इतिहास, कैलास पब्लिकेशन्स, औरंगाबाद, २०१३.
- ८) रगडे सुभाष, समाजसुधारक, एज्युकेशनल पब्लिशर्स, औरंगाबाद, २०१४.

History of Maratha (1630-1707 A.D.)

Marks : 100 (Theory : 75 Marks : Internal Assessment : 25 Marks)

1. **Source material for the study**
2. **Rise of Maratha Power**
Cause's, Shahajiraje Bhosle, Chattrapati Shivaji and his struggle with Adilshahi and Mughal.
3. **Chattrapati Shivaji Maharaj**
Chattrapati Shivaji Maharaj and foreign powers, coronation's and Karnatak expedition, Religious policy.
4. **Administration of Chattrapati Shivaji Maharaj**
Civil, Military, Judiciary and Forts.
5. **Chattrapati Sambhaji and Rajaram Maharaj**
Career and Achievements of Chattrapati Sambhaji Maharaj, Chattrapati Rajaram Maharaj, Maharani Tarabai, Santaji Ghorpade and Dhanaji Jadhav, War of Independence and its significance.

Semester IV, Paper - XV

History of Maratha (1707-1818 A.D.)

Marks : 100 (Theory : 75 Marks : Internal Assessment : 25 Marks)

1. **Rise of the Peshwa's**
Chattrapati Shahu and Balaji Vishwanath.
2. **Expansion of Maratha Empire**
Bajirao first and Balaji Bajirao, Career and Achievements, Third battle of Panipat - causes and effects.
3. **Maratha Empire after the third battle of Panipat.**
Madhavrao first, Sawai Madhavrao and Bajirao Second - Career and Achievements, Decline of Maratha empire.
4. **Administration of Peshwa's**
Central, Provincial, village, Military, Judiciary, Maratha confederation.
5. **Art and Architecture**

Books for Reference :

१. भावे वा.कृ., शिवकालीन महाराष्ट्र, पुणे, वरदा प्रकाशन, प्रा.लि., १९९८.
२. कुलकर्णी अ.रा. व खरे ग.ह., (संपा.), मराठ्यांचा इतिहास, खंड -१, नागपूर, महाराष्ट्र विद्यापीठ ग्रंथ निर्मिती मंडळ, १९८४.
३. कोलारकर श.गो., मराठ्यांचा इतिहास, नागपूर, श्री मंगेश प्रकाशन, १९९५.
४. गोखले कमल, शिवपुत्र संभाजी, कॉन्टिनेन्टल प्रकाशन, पुणे.
५. बिरादार टी.के., मराठ्यांचा इतिहास, लातूर, विद्याभारती प्रकाशन, २०००.
६. डॉ. सावळे दिपा, मराठ्यांचा इतिहास, एज्युकेशनल पब्लिशर्स अँड डिस्ट्रीब्युटर्स, औरंगाबाद, २०१३.
७. डॉ. धोंडगे केशव शंकर, उपेक्षित शहिदे आजम युगपुरुष छत्रपती संभाजी महाराज, प्राचार्य श्री शिवाजी कॉलेज, कंधार व श्री संत गाडगे महाराज महाविद्यालय, लोहा, ऑगस्ट २०११.
८. गायकवाड सरदेसाई, थोरात हनमाने, मराठेकालीन संस्था वविचार, फडके प्रकाशन, कोल्हापूर, १९९०.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Revised Syllabus of History

M.A. Second Year

Semester III, Paper - XI

OR Paper - History of U.S.A. (1901 to 1945 A.D.)

Marks : 100 (Theory : 75 Marks : Internal Assessment : 25 Marks)

1. **Thiodor Ruswelt**
Internal and Foreign policy.
2. **Woodro Wilson**
Internal and Foreign policy.
3. **America and First world war.**
4. **Economic Prosperity (1921-1932)**
Warren Hardings, Calvin Coolij, Harbert Huwar, Great depression - Causes and Effects.
5. **Franklin Ruswelt**
Internal and Foreign policy.

Semester IV, Paper - XV

OR Paper - History of U.S.A. (1945 to 2001 A.D.)

Marks : 100 (Theory : 75 Marks : Internal Assessment : 25 Marks)

1. **America After second world war (1945-1960)**
Truman doctrin, Marshal Plan, North Atlantic Treaty Organisation, Korian War, South East Asia Treaty Organisation, Medeal East Treaty Organisation, Isenhowar doctrin.
2. **Jhon Kenedi and Lindon Jhonson**
Internal and Foreign policy.
3. **Rechard Nixan, Jerold ford and James Karter**
Internal and Foreign policy.
4. **Ronald Regan**
Internal and Foreign policy.
5. **George Bush and Bill Clinton**
Foreign policy.

Book for References :

१. डॉ. कोठेकर शांता, अमेरीकेच्या संघराज्याचा इतिहास, श्री साईनाथ प्रकाशन, नागपूर, २०१०.
२. वक्कानी नि.आ., अमेरिकेचा इतिहास, मंगेश प्रकाशन, नागपूर.
३. भवरे एन.जी.व देवपुजारी मु.बा., अमेरिकेचा इतिहास, महाराष्ट्र विद्यापीठ ग्रंथ निर्मिती मंडळ, नागपूर
४. देवधर य.ना., अमेरिकेचा इतिहास, महाराष्ट्र विद्यापीठ ग्रंथ निर्मिती मंडळ, नागपूर

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Revised Syllabus of History

M.A. Second Year

Semester III, Paper - XII

World in 20th Century

Marks : 100 (Theory : 75 Marks : Internal Assessment : 25 Marks)

- 1. World war first**
Causes, Course, Effects and peace settlement.
- 2. Russian Revolution**
Causes and effects, Rise of Socialism, Lenin, New economic policy.
- 3. League of Nations**
Structure, Achievement and Failure
- 4. Great depression**
Causes and effects.
- 5. Facist Italy**
Rise of Facism and its philosophy, Benito Musolini and his Internal and Foreign policy.

Semester IV, Paper - XVI- World in 20th Century

Marks : 100 (Theory : 75 Marks : Internal Assessment : 25 Marks)

- 1. Nazi Germany**
Rise of Nazism and its philosophy, Adolph Hitler - Internal and Foreign policy.
- 2. Second world war**
Causes, Course and Effects.
- 3. Cold war**
Causes, Pacts, Treaties and Rivalries, Effects.
- 4. Non - alignment movement and the third world.**
- 5. Communist revolution in China**

Books for reference :

1. कदम य.ना., विसाव्या शतकातील जगाचा इतिहास, फडके प्रकाशन कोल्हापूर, २००५.
२. वैद्य सुमन, आधुनिक जग, भाग १, श्री साईनाथ प्रकाशन, नागपूर, २००६.
३. वैद्य सुमन व कौठेकर शांता, आधुनिक जग, भाग २, श्री साईनाथ प्रकाशन, नागपूर, २०००.

४. डॉ. साखरे विजया व डॉ. कठारे अनिल, जागतिक इतिहासातील स्थित्यंतरे, चिन्मय प्रकाशन, औरंगाबाद २०११.
५. कोलारकर श.गो., आधुनिक जगाचा इतिहास, मंगेश प्रकाशन, नागपूर.
६. कोठेकर शांता, अमेरिकन संघराज्याचा इतिहास, श्री साईनाथ प्रकाशन, नागपूर, २०१०.
७. आचार्य धनंजय, विसाव्या शतकातील जग, श्री साईनाथ प्रकाशन, नागपूर, २००७.
८. डॉ. कोंडेकर आर.एस. व कांबळे एन.के., जागतिक घडामोडींचा इतिहास, अरुणा प्रकाशन, लातूर, २०११
९. डॉ. कठारे अनिल, आधुनिक जगाचा इतिहास, प्रशांत पब्लिकेशन्स, जळगाव, २०१४.
१०. डॉ. कठारे अनिल, आधुनिक चीनचा इतिहास, कल्पना प्रकाशन, नांदेड, तृतीय आवृत्ती २०१२.
११. भामरे आर.पी. व पवार मोहन, पहिल्या महायुद्धानंतरचे जग (१९१८-१९९२), ब्रेन टॉनिक प्रकाशन, नाशिक.
१२. भामरे आर.पी. व इतर, सार्क देश व वसाहतवाद, यशवंतराव चव्हाण महाराष्ट्र मुक्त, विद्यापीठ नाशिक
१३. डॉ. भद्रे एन.जी. व डॉ. कोंडेकर आर.एस., विसाव्या शतकातील जग, चिन्मय प्रकाशन, औरंगाबाद, २०१३.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

Revised Syllabus of History

M.A. Second Year

Semester III, Paper - XII

OR Paper - Tourism

Marks : 100 (Theory : 50 , Practical - 50 Marks)

Practical : Documentation - Tutorial, Photography, Site & Museum visit Report - 40 Marks & Viva-voce - 10 marks

1. Introduction of Tourism

Definitions, Historical background, , Types, Nature and scope of Tourism, Motivation of Tourism.

2. Development of Tourism

Purpose and importance, Sarjant committee, Indian Tourism Development Corporation, Maharashtra Tourism Development Corporation, Role of History in Tourism.

3. Transport and Accomodation

Transport - Nature, Traval agencies, Guide's
Accomodation - Nature and Types.

4. Planning and operation

Planning, Market, Advertising

Semester IV, Paper - XVI

OR Paper - Tourism

Marks : 100 (Theory : 50 , Practical - 50 Marks)

Practical : Documentation - Tutorial, Photography, Site & Museum visit Report - 40 Marks & Viva-voce - 10 marks

1. Historical Tourist places

1) **Caves** - Barabar, Ajintha, Ellora, Elephanta, Shiur.

2) **Forts** - Raigad, Devgiri, kandhar, Agra.

3) **Memorials** - Bibi ka Makbara, Tajmahal, Golghumat, Chaityabhumi.

2. Religious Tourist places

Sarnath, Sanchi, Trimbakeshwar, Pandharpur, Tuljapur, Kolhapur, Nagpur (Dikshabhumi) and Nanded.

3. Natural Tourist places

Matheran, Mahabaleshwar, Chikhaldara, Toranmal.

4. Museums

Bahaddarpura, Mahur, Ter, Aurangabad.

Books for Reference

- १) कठारे अनिल, डॉ. साखरे विजया व डॉ. पाटील गौतम, पुरातत्व विद्या वस्तुसंग्रहालय आणि पर्यटन, औरंगाबाद, विद्या बुक्स पब्लिशर्स, मार्च २०१५.
- २) महाजन शां.ग., दफ्तरखाने आणि वस्तुसंग्रहालये, पुणे, पुणे विद्यार्थी गृह प्रकाशन, २००७.
- ३) साखरे विजया, समग्र संशोधन, खंड पहिला, औरंगाबाद, चिन्मय प्रकाशन, सप्टेंबर २०११.
- ४) साखरे विजया, ऐतिहासिक पर्यटन, अक्षरलेणं प्रकाशन, सोलापूर - २०१२.
- ५) डॉ. कठारे अनिल, समग्र संशोधन, खंड २, चिन्मय प्रकाशन, औरंगाबाद, सप्टेंबर २०११.
- ६) डॉ. कठारे अनिल व डॉ. दळवे अरुण, राष्ट्रकुटांची राजधानी कंधार, कल्पना प्रकाशन, नांदेड, २००५.
- ७) कठारे पुनम, महाराष्ट्रातील किल्ले, एज्युकेशनल पब्लिशर्स, औरंगाबाद, २०१४.
- ८) शिंदे एस.बी., पर्यटन भूगोल, फडके प्रकाशन, कोल्हापूर, २०००.
- ९) टिपरे राधिका, वेरुळ लेण्यातील शिल्पवैभव, मेहता पब्लिशिंग हाऊस, मुंबई, २००६.



**SWAMI RAMANAND TEERTH MARATHWADA
UNIVERSITY NANDED (MS)**

Syllabus

**Master of Arts (M.A.) in Urdu
(Second Year)**

Semester III & IV

With effect from June, 2014

Swami Ramanand Teerth Marathwada University, Nanded
Syllabus of Urdu M.A. Second year.

Third Semester

Paper IX QASIDA

Topic for Discussion.

- 1) Qaside ki Taarif aur Ahmiyat
- 2) Qaside ki Tareekhi, Samaji Aur Adabi pas manzar
- 3) Qasida Ka Aagaz-o-Irequa
- 4) Qasida Ke Ajzai Tarkeebi
- 5) Qaside ke Zawal ke Asbab

Detailed Study

- 1) Gawasi Durya mein the jo Nikle Bhaar Aye Angar Moti
- 2) Wali Ishque mein Lazim Hai Awal Zaat kun fani Kare
- 3) Sauda Ab samne mere jo kiyee peer-o-jawan Hai
- 4) Zaoque Wah, Wah kiya Motadil Hai Baagh Aalam mein Hawa
- 5) Mohsin Kakarvi Simte Kashi se chala janib mathora Badal

Recommended Books

- 1) Urdu Qasida Nigari Mohamood Ilahi
- 2) Urdu mein Qasida Nigari Dr. Mohamad Saher
- 3) Qasida Nigaaran u.p. Ali Jawad Zaidi
- 4) Mirza mohd Rafi Sauda Khaleeque Anjum
- 5) Intekhaab Urdu Qasayed Abu Mohmad Saher
- 6) Urdu Qasida Nigari Ume Hani Ashraf
- 7) Taareekh Urdu Adab Jamil Jalebi
- 8) Qasida ka fan Kaleem uddin Ahmed
- 9) Qasida Zaoque Ibrahim zaoque
- 10) Sauda Shaikh chand

Paper Pattern

Time :3 Hours

Paper IX Qasida

Marks : 80

Q.No.1 A: Fill in the blanks	05
B: Multiple Choice	05
Q.No.2 : Reference to the Context any two out of Four	20
Q.No.3:A: One short Answer Type Question on Fun & Technique of Qasida with internal choice	10
B: One short answer Type Question on prescribed Qasida with internal choice	10
Q.No.4 Long AnswerType Qestion on Qasida from Topic for Discussion with Internal choice.	15
Q.No.5 Long Answer Type Question on Qasida Nigar Poet with internal choice.	15

Swami Ramanand Teerth Marathwada University, Nanded
Syllabus of Urdu M.A. Second year. Third Semester
Paper X : Urdu min Ghair Afsanvi Adab
(Khootut, inshaya, Safername)

Topic For Discussion.

- 1) Khootut ki Adabi Ahmiyat
- 2) Khootut ka Aagaz-o-irtequa
- 3) Khootut ki Kismein
- 4) Inshaye ka mafhoom
- 5) Inshaye ki Khoosusiyat
- 6) Urdu inshaya Nigari ka irtequa
- 7) Safername ka Aagaz Irtequa
- 8) Safername ki Qismein
- 9) Safername ki Adabi Ahmiyat

Detailed Study

- | | |
|------------------------------|-----------------------------|
| A) Khootut Ghalib | Edited by Malik Ram |
| I) Meer Mehdi Majrooh ke nam | |
| II) Hatem Ali Meher ke Nam | |
| III) Ineqaab Ghubar-e-Khatir | Edited by U.P. Urdu Academy |
| Letter No. 2or 3 | |
| B) Inshya Aur Inshaye | Edited Mohmad Hasnain |
| I) Gulshan Umid ki Bahar | Mohd Hussain Azad |
| II) Kutte | Pitras Bukhari |
| III) Chamcha | Kaleemuddin |
| C) Japan Chalo Japan Chalo | Mujtaba Hussain |
| Gerneli Sadak | Raza Ali Aabedi |

Recomanded Book

- | | |
|--------------------------------------|-----------------------|
| 1) Urdu ke pairay Bayan | Mohioddin Qadri Zoor |
| 2) Urdu Nasar ka Aagaz Irtequa | Rafia Sultana |
| 3) Daastan Zaban Urdu | Shoakat Sabzwari |
| 4) Uudu Asalibe Nasar | Ameerulla Khan Shahin |
| 5) Inshaya ki Bunyaad | Wazir Aagah |
| 6) Inshaye kiya Hai | Wazir Aagah |
| 7) Inshaya | Aadam Shaikh |
| 8) Urdu Safernamon ka Jayeza | Khalid Sayeed |
| 9) Urdu Safername ki Muktasar Tareeq | Mirza Hamid Baig |
| 10) Urdu Adab mein safername | Anwer Sayeed |
| 11) Khutut Ghalib | Malik Ram |
| 12) Inteuqab Gubare Khatir | U.P. Urdu Academi |

Paper Pattern

Time :3 Hours Paper X Urdu Mein Ghair Afsanwi Adab Marks : 80
(Khookut, inshaya, Safername)

Q.No.1 A: Fill in the blanks	05
B: Multiple Choice	05
Q.No. 2: Reference to the Context any two out of Four	20
Q.No.3:A One short Answer Type Question one Khootut with internal choice.	10
B: One short answer Type Question on inhaya Nigar or Inshaya	10
Q.No.4 Long Answer type Question on Topic for Discussion on khutut, Inshaya	15
Q.No.5 One Long Answer Type Question on Safernama	15

Swami Ramanand Teerth Marathwada University, Nanded
Syllabus of Urdu M.A. Second year. Third Semester
Paper XI. Urdu main Tanz-o-mizah

Topic For Discussion.

- 1) Tanz ki tareef
- 2) Mizha ki Tareef
- 3) Tanz-o- Mizha ka Farq
- 4) Urdu Adab main Tanz-o- Mizha ki Riwayat

Detalied Study

- 1) Haju Go Shora Auad punch ke hawale se
- 2) Urdu Nasar main Tanz-o-Mizha ka Irteqha

**Shokat Thanvi, Pitras Buqari, Rasheed Ahmed Siddiqi, Mustaq ahmed
yousufi, Mujtaba Hussain, -Marhoom ki Yad main Pitras**

3) Urdu Shairi main Tanz-o-mizha Ka Irteqha

AKabar Allahabadi, Dilwar Figar, Raja Mohd khan Sulman Khateeb, Talib
Khundmiri

Recommended Books

- | | |
|---|---|
| 1) Urdu main Tanz-o-Mizha | Wazeer Agha |
| 2) Azadi Ke Baad Urdu Nasar Main Tanz-o-mizha | Nami Ansari |
| 3) Bisween Sadi main Tanz-o-Mizha | Nami Ansari |
| 4) Awad punch ki Ibtedai Khidmat | Razaq Farooqui
& Khaja
Abdul Gafoor |

Paper Pattern

Time :3 Hours

Paper XI Urdu Main Tanz-o-Mizha

Marks : 80

Q.No.1 A: Fill in the blanks	05
B: Multiple Choice	05
C : True And False	05
D : Match the Word	05
Q.No.2 A: Short Answer Type Question on Urdu mein Tanz-o-Mizha Ki Tareef Aur Mafhoom	10
B: Short Answer Type Question on Tanz-o-mizha ka farq	10
Q.No.3 Long Answer Type Question on Urdu mein Tanz-o-Mizha ka Aagaz-o-Irteqha	15
Q.No. 4 Long Answer Type Question on Urdu Shairi mein Tanz-o-Mizha Ka Agaz o Irteqha	15
Q.No.5 Short Note on Marhoom ki Yad mein	10

Swami Ramanand Teerth Marathwada University, Nanded
Syllabus of Urdu M.A. Second year. Paper XII Third Semester
Adabi Tanqueed Aur Tanqueedi Dabistaan

Topic for Discussion.

- 1) Adab Kiya Hai, Unani aur Mashraqui Nazaryaat
- 2) Adab ki mahiyat aur Tanqueed se Rishta
- 3) Roomani Tanqued.
Tareef, Aagaz, Ahmiyat,
- 4) Jamalyati Tanqueed
Tareef, Aagaz, Ahmiyat,
- 5) Marxi Tanqueed
Tareef, Aagaz, Ahmiyat,
- 6) Nafsiyati Tanqueed
Tareef, Aagaz, Ahmiyat
- 7) Tassourati Tanqueed
Tareef, Aagaz, Ahmiyat
- 8) Scientific Tanqueed
Tareef, Aagaz, Ahmiyat.

Recommended Books

- | | |
|--|------------------|
| 1) Tanqueed Kiya Hai | All Ahmed Suroor |
| 2) Jadeed Urdu tanqeed usool-o-Nazryat | Shareb rudulvi |
| 3) Urdu Tanqueed Ka Irtequa | Ibadat Barelvi. |
| 4) Inte khadiyaat P-I-II | Niyaz Fathepuri |
| 5) Tanqueedi Nazaryaat P-I-II | Ehtesham Hussain |
| 6) Urdu Tanqueed Nigari | Ibadat Barelvi. |
| 7) Magribi Tanqueed usool | Sajjad Hussain |
| 8) Mashriqui Tanqueed | Abdul Muagni |
| 9) Tanqueedi Tassauraat | Dr. Abdul Haque |
| 10) Mashriqui Sheryaat | Abul Kalam Qasmi |

Paper Pattern

Paper XII Adabi Tanqueed Aur Tanqueedi Dabistaan

Time :3 Hours

Marks : 80

Q.No.1A: Fill in the blanks	05
B: Multiple choice	05
C: True and Flase	05
D: Match the word	05
Q.No.2: A) Short answer Type Question on criticism with internal choice	10
B) One Short Answer Type Question on Criticim and Literature with internal choice	10
Q.No.3: Write short note on critic	10
Q.No.4 One long Answer Type Question on any tanqueedi Dabistaan	15
Q.No.5 Long Answer Type Question on any Dabistan Importance in Urdu Tanqueed	15

Swami Ramanand Teerth Marathwada University, Nanded
Syllabus of Urdu M.A. Second year.

Fourth Semester
Paper XIII Marsiya

Topic for Discussion.

- 1) Marsiya Ke Lagvi mane, Istelahi mane
- 2) Marsiya Ka Aagaz-o-Irtequa.
- 3) Marsiya Ke Aqsaam
- 4) Marsiya Shimali hind mein
- 5) Marsiya Junubi Hind mein
- 6) Jadeed Marsiy Noviyat, Ahmiyat
- 7) Marsiya Ka Tajziyati Mutalya
(Zaban, Asalib, Jamaliyaati Anasir, Makalema, Dramai Anasir)

Detailed Study

- 1) Anis Phoola Shafaque se charkh pe jab Lalazare Subha
- 2) Dabeer Kiss sher ki Aamad Hai ke Ran Kanp Raha Hai
- 3) Ghalib Marsiye Arif
- 4) Hali Marsiya Ghalib
- 5) Josh Swgwarane-Hussain se Khitab
- 6) Faiz Marsiya imam Hussain
- 7) Waheed Akhter Salare-Khafila Shaoque (Rahe Kafla Jurat Raftar safer mein)

Recommended Books

- | | |
|-------------------------------------|-------------------------------------|
| 1) Urdu Marsiya Ka Irtequa | Dr. Masihu Zama |
| 2) Mawazna Anees-o-Dabeer | Shibli Nomani |
| 3) Urdu Marsiya | Dr. Shareb Radelvi |
| 4) Marsiya Ki Sargashit | Dr. Shareb Radelvi |
| 5) Meer Anees se Tarooft | Saleha Aabid Hussain |
| 6) Marasi Anees mein Dramai Anaasir | Dr. Shareb Radelvi |
| 7) Anis Shanasi | Dr. Gopi chand narang |
| 8) Intequab Marasi | Edited by Maktaba Jamia Ltd. Delhi. |
| 9) Karbala | Waheed Akhter |
| 10) Shola-o-Shabnam | Josh Malihabadi |
| 11) Kulyaat-e-Faiz | Faiz Ahmed Faiz |
| 12) Kulyaat-e-Ghalib | Ghalib |
| 13) Kulyaat-e-Hali | Hali |

Paper Pattern

Time :3 Hours

Paper XIII Marsiya

Marks : 80

Q.No. 1 : A : Fill in the blanks	05
B : Multiple choice	05
Q.No.2: Reference to the context any four out of six	20
Q.No.3: A Short Answer Type Question on prscribed Marsiya	10
B : Shoert Answer Type Question on Marsiya Nigar	10
Q.No. 4. Long Answer type Question on Marsiya from topic for Discussion	15
Q.No.5. One Long Answer Type Question on critical & Analysis of prscribed Marsiya aur marsiya Nigar.	15

Swami Ramanand Teerth Marathwada University, Nanded
Syllabus of Urdu M.A. Second year.

Fourth Semester

Paper XIV. Urdu Nazam

Topic for Discussion.

- 1) Nazam Ke lagvi Mane Istelahi Mane
- 2) Nazam Ka fanni aur Tareequi Pasmanzer
- 3) Urdu Nazam Ka Aagaz-o-Irtequa
- 4) 1857 Ke bad Urdu Nazam Nigari
- 5) Nazam Ke Mauzoaat
- 6) Nazam Ki Kisme (Azad Nazam, Nazam Moora)
- 7) Jadeed Shairy Asnaf (Salasi, Sonet, Hyco, Traily, Dohe)

Detailed Study

- 1) Nazir Akbarabadi Banjara Nama, Muflisi,
- 2) Hali Musadas-e-Hali (Ibtedai 10 Band)
- 3) Akbar Alhabadi BarqueKalisa, Talime Niswan
- 4) Chakbast Ramayan Ka Ek Seen
- 5) Josh Malihabadi Shikiste Zindan ka Khawab, Husan aur Mazdoori
- 6) Faiz Nisar main Teri Galyoon pe
- 7) Akhterul Iman Masjid, Ek Ladka
- 8) Maqdoom Mohiuddin Chand Taro ka Ban, inteazar
- 9) Sikandar Ali wajd Ajanta

Recommendad Books

- 1) Urdu Shairi ka mizaj Dr. Vazir Aaga
- 2) Jadeed Urdu Shair Dr. Ibadat Barelvi
- 3) Nazme Jaded Ki Karwatan Dr. Vazir Aagaz
- 4) Urdu Nazam Nazriya o Amal Dr. Aqeel Ahmed
- 5) Azad Nazam aur Nazam moora Dr. Hanif Kaifi
- 6) Nazir Akbarabadi
- 7) Jadid Urdu Nazam Hali se Meeraji tak Dr. Jameel Mazhari
- 8) Shola-o-Shabnam Josh Malihabadi
- 9) Kulyaate Faiz Faiz Ahmed Faiz
- 10) Yaadein Akhterul Iman
- 11) Urdu ka panchwa Minar Ameerullah Shaheen
- 12) SikendarAli Wajd Shakshiyat o Shairi Dr. Rana Hydri

Paper Pattern

Time :3 Hours

Paper XIV Urdu Nazm

Marks : 80

Q.No.1 :	A) Fill in the blanks	05
	B) Multiple choice	05
Q.No.2 :	Reference to the context any four out of six	20
Q.No.3 :	A) Write short Note on anyone poem out o three	10
	B) Short Answer Type Question on poet	10
Q.No. 4.	Long Answer type Question from topic for Discussion	15
Q.No. 5.	One Long Answer Type Question on Jadeed Urdu Nazm Nigar.	15

Swami Ramanand Teerth Marathwada University, Nanded
Syllabus of Urdu M.A. Second year.

Fourth Semester

Time :3 Hours

Paper XV. Special Study of Ghalib

Marks : 80

Topic for Discussion :-

- 1) Ahed-e-Ghalib ke Siyasi, Tahezibi, Aur Tamaduni Halat
- 2) Ghalib ki Sirat-o- Shaksiyat
- 3) Ghalib ka Shairi Irteqa
- 4) Kalam-e-Ghalib ke Fikri-o-Fani Anasir
- 5) Ghalib ka Falsafa Aur Tasauf
- 6) Ghalib ka Tasaur-e-Gham
- 7) Ghalib ka tasaur-e-Ishq
- 8) Ghalib ki Shairi Mein Haqeeqat Pasandi
- 9) Ghalib ke Kalam me Tanz-o-Mizha
- 10) Hum Asar Shora Mein Ghalib ka Muqam
- 11) Urdu Adab Mein Ghalib ke Asarat

Detailed Study

Deewan-e-Ghalib se Radeef “wau” ki Ghazloon ka tafsli Mutaliya

Recommmendad Books

- | | |
|--------------------------|------------------------|
| 1) Yadgar-e-Ghalib | Altaf Hussain Halli |
| 2) Deewan-e-Ghalib | Mirza Ghalib |
| 3) Tasaurate Ghalib | Mohd Aziz Hussain |
| 4) Ghalib Fikr-o-Fun | Dr. Faqrul Islam Azami |
| 5) Azmate - Ghalib | prof. Abdul Mugani |
| 6) Tahfim-e-Ghalib | Shamsurahaman Farooqi |
| 7) Shara Deewan-e-Ghalib | Saleem Chisty |

Paper Pattern

Time :3 Hours

Paper XV Special Study of Ghalib

Marks : 80

Q.No.1:	A) Fill in the blanks.	05
	B) Multiple Choice	05
Q.No.2:	Reference to the Context Any four Out of Six	20
Q.No.3:	A) Short Answer Type Question on Ghalib Life	10
	B) Write Short Note any one on Ghalib ki shairi ka Irteqha	10
Q.No.4:	Longe Answer Type Question on Ghalib's ki Ghazal Goi	15
Q.No.5:	Longe Answer Type Qestion on Ghalib ki Ghazaloo ka Funni Tajzia	15

Swami Ramanand Teerth Marathwada University, Nanded
Syllabus of Urdu M.A. Second year.

Fourth Semester

Paper XVI. Lisaniyaat aur Fan-e-urooz

Topic for Discussion.

- 1) Elme Lisaniyaat
- 2) Zaban Aur uski Ahmiyat
- 3) Elme Zaban Aur Uski Mukatlif Shaklein
- 4) Urdu Ka Nizam-e-Sautiyat
- 5) Hind Aariyai Azaban Ka Kahandan-e-Alasna
(Qadeem, Wasti, Jadeed)
- 6) Magribi Hindi aur uski Boliyan

Fan-e-Urooz

- 1) Urooz Ki Tareef
- 2) Tahkti Ke usool
- 3) Usool-e-segana
- 4) Bhare ramal salim
- 5) Bahre Hajaz salim
- 6) Bhare Mutaquarib Salim

Recommended Books

- 1) Hindustani Lisanayaat Quadri Mohiuddin Zoor
- 2) Urdu Zaban Ka samajiyaati, Tajziyaati Mutala Dr. Masood Hasan Khan
- 3) Maqudama Zaban Urdu Dr. Masood Hasan Khan
- 4) Urdu Zaban ki tareeq Khalilullah Baig
- 5) Zaban Aur Elmi zaban Abdul Quadar Sarwari
- 6) Urdu Lisaniyaat Abdul Sattar Dalvi
- 7) Urdu main Lisaniyaat Tajzia Abdul Sattar Dalvi
- 8) Lisaniyaat Tajzia Gyanchand Jain
- 9) Zaban kia Hai Kahalil Ahmed
- 10) Panjab main Urdu Mahemood Khan Sheerani
- 11) Sarmay-e-Balagat Pandit Ratan Pandhiri
- 12) Fan-e-Shairi Aqlaq Dehlvi
- 13) Uroozo-aahang Kamal Ahmed Siddiqui

Paper Pattern

Time :3 Hours

Paper XVI. Lisaniyaat aur Fan-e-urooz

Marks : 80

Q.No. 1:	A) Fill in the blanks	05
	B) Multiple choice	05
	C) True and False	05
	D) Match the word	05
Q.No. 2:	A) Short answer type Question on Zaban ki Ahmiyat	10
	B) Short Answer Type Question on Sautiyat	10
Q.No. 3:	Long Answer Type Question on Lisaniyaat	15
Q.No. 4:	Long Answer type Question on Khandan-e-Alasana	15
Q.No. 5:	A) Short Note on Elme Urooz	05
	B) Taqati Shair	05

॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

“Dnyanteerth”, Vishnupuri, Nanded - 431606 Maharashtra State (INDIA)

Established on 17th September 1994 – Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade



ACADEMIC (1-BOARD OF STUDIES) SECTION

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संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदव्युत्तर स्तरावरील प्रथम वर्षाचे CBCS Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ३० एप्रिल २०१९ रोजी संपन्न झालेल्या ४३व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.५/४३-२०१९ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदव्युत्तर स्तरावरील प्रथम वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्यात येत आहेत.

- १) एम.ए.—प्रथम वर्ष—इंग्रजी
- २) एम.ए.—प्रथम वर्ष—हिंदी
- ३) एम.ए.—प्रथम वर्ष—मराठी
- ४) एम.ए.—प्रथम वर्ष—संस्कृत
- ५) एम.ए.—प्रथम वर्ष—उर्दू
- ६) एम.ए.—प्रथम वर्ष—अर्थशास्त्र
- ७) एम.ए.—प्रथम वर्ष—भूगोल
- ८) एम.ए.—प्रथम वर्ष—इतिहास
- ९) एम.ए.—प्रथम वर्ष—तत्त्वज्ञान
- १०) एम.ए.—प्रथम वर्ष—राज्यशास्त्र
- ११) एम.ए.—प्रथम वर्ष—मानसशास्त्र
- १२) एम.ए.—प्रथम वर्ष—लोकप्रशासन
- १३) एम.ए.—प्रथम वर्ष—समाजशास्त्र

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,
विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक—०१/परिपत्रक/पदव्युत्तर—सीबीसीएस अभ्यासक्रम/
२०१९-२०/६७

दिनांक : १७.०६.२०१९.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

स्वाक्षरित/—

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग



**SWAMI RAMANAND TEERTH
MARATHWADA UNIVERSITY
NANDED**

SYLLABUS

M. A. ECONOMICS

(Semester I & II)

(Choice Based Credit System)

(With effect from 2019-20)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
Choice Based Credit System (CBCS) Course Structure
Faculty of Humanities
M.A. Economics
(Semester I & II)
With Effective From, 2019-20
Subject: Economics

Semester	Paper No.	Name of the Paper	Lectures Per Week	Total No. of Lectures	Marks			Credits
					CA	ESE	Total	
I	I (Compulsory)	Micro Economic Analysis	4	50	25	75	100	4
	II (Compulsory)	Macro Economic Analysis	4	50	25	75	100	4
	III (Optional)	International Economics OR Financial Economics	4	50	25	75	100	4
	IV (Optional)	Mathematical Economics OR Demography	4	50	25	75	100	4
II	V (Compulsory)	Micro Economic Analysis	4	50	25	75	100	4
	VI (Compulsory)	Macro Economic Analysis	4	50	25	75	100	4
	VII (Optional)	International Economics OR Financial Economics	4	50	25	75	100	4
	VIII (Optional)	Mathematical Economics OR Environmental Economics	4	50	25	75	100	4
Total			32	400	200	600	800	32

- | | |
|--|-----------------|
| 1) Continuous Assessment (C.A.): | 25 Marks |
| Two Class Test each for | 5 Marks |
| One home assignment for | 10 Marks |
| One Seminar (with abstract) | 5 Marks |
| 2) End of Semester Examination (E.S.E.) : | 75 Marks |

End of Semester Examination (ESE)
Question Paper Pattern
ECONOMICS (M. A.)
With Effect From 2019-20

Duration: Three Hours

Marks: 75

- | | |
|--|----------|
| Q.1 Descriptive question
Or
Descriptive question | 20 Marks |
| Q.2 Descriptive question
Or
Descriptive question | 20 Marks |
| Q.3 Descriptive question
Or
Descriptive question | 20 Marks |
| Q.4 Short notes/answers on any three
i.
ii.
iii.
iv.
v. | 15 Marks |

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
ECONOMICS
M. A. FIRST YEAR (SEMESTER – I)
Micro Economic Analysis (Compulsory)
(Paper No. I)

Periods: 50

Marks: 100 = Theory (ESE) 75 + Internal (CA) 25

Credit: 4

Course Outline: This course is designed to introduce the students to basic concepts as well as advanced theories in microeconomics. The students will be able to use these concepts and theories to understand the relevance of microeconomics to the real world. The student will be able to build on these concepts in the future to develop deeper understanding of the Economy.

Course Objectives:

1. To prepare the students to understand the principles of microeconomic theory;
2. The emphasis will be on thinking like an economist and the course will illustrate how; microeconomic concepts can be applied to analyze real-life situations.
3. To facilitate understanding of the basic concepts of Economics with the help of Mathematics;
4. To encourage students to analyze economic theories by mathematical methods.

Course Utility:

The paper is useful for the students to understand consumer's behaviour, production and cost, price determination, distribution and welfare. It is also helpful to understand all the branches of economics.

Course Content:

Unit-I Introduction and Basic Concepts

Periods 12

Basic economic problems-Choice and scarcity; Deductive and inductive methods of analysis; Positive and normative economics; Economic models; Micro and macro economic analysis; Characteristics of equilibrium and disequilibrium systems.

Unit-II Demand Analysis

Periods 12

Theories of demand-indifference curve (income, substitution and price effects), Slutsky theorem, compensated demand curve and their applications; Revealed preference theory; Recent developments in demand analysis-Characteristics of goods approach; Consumer's choice involving risk; Pragmatic approach; Linear expenditure systems.

Unit-III Theory of Production and Costs

Periods 12

Production function; Law of variable proportions and returns to scale; Isoquants, Least cost combination of inputs; Economies of scale; Multi-product firm; Euler's theorem; Technical progress and production function; Cobb-Douglas production function, CES production function and their properties; Traditional and modern theories of costs.

Unit-IV Price and Output Determination

Periods 14

Perfect competition-short run and long run equilibrium of the firm and industry; Monopoly-short run and long run equilibrium, price discriminating monopoly; Monopolistic competition-equilibrium of the firm and the group, excess capacity under monopolistic competition. Game theory, Oligopoly-Non-collusive (Cournot, Edgeworth, Kinked demand curve and Stackelberg's solution) and collusive (Cartels and mergers, price leadership) models.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
ECONOMICS
M. A. FIRST YEAR (SEMESTER – II)
Micro Economics Analysis (Compulsory)
(Paper No. V)

Periods: 50

Marks: 100 = Theory (ESE) 75 + Internal (CA) 25

Credit: 4

Course Content:

Unit-I Alternative Theories of the Firm

Periods 14

Critical evaluation of marginal analysis; Baumol's sales revenue maximization model; Williamson's model of managerial discretion; Morris model of managerial enterprise; Full cost pricing rule; Bain's limit pricing theory and its recent developments including Sylos-Labini's model; Cyrt-March Behavioural model of the firm .

Unit-II Distribution

Periods 12

Neo-classical approach — Marginal productivity theory; Product exhaustion theorem; Elasticity of technical substitution, technical progress and factor shares; Determination of rent, wages, interest and profit (modern theories); Macro theories of distribution — Ricardian, Marxian, Kalecki and Kaldor.

Unit-III Welfare Economics

Periods 12

Pigovian welfare economics; Pareto optimal conditions; Value judgement; Social welfare function; Compensation principle; Theory of Second Best— Arrow's impossibility theorem; Sen's Idea of Welfare Economics, Rawl's theory of justice, equity-efficiency trade off.

Unit-IV General Equilibrium

Periods 12

Partial and general equilibrium, Walrasian excess demand and input-output approaches to general equilibrium, existence, stability and uniqueness of equilibrium and general equilibrium, Production without consumption — two sector model, relationship between relative commodity and factor prices (Stopler-Samuelson theorem).

References (Micro Economics Analysis, for Semester-I & II, P/N I & V):

1. Borch, K.H. (1968), The Economics of Uncertainty, Princeton University Press, Princeton.
2. Da Costa, G.C. (1980), Production, Prices and Distribution, Tata McGraw Hill, New Delhi.
3. Diamond and Rothschild (Eds.) (1978), Uncertainty in Economics, Academic, Press, New York.
4. Graff, J. De V. (1957), Theoretical Welfare Economics, Cambridge University, Press, Cambridge.
5. Green, H. and V. Walsh (1975), Classical and Neo-Classical Theories of General Equilibrium, Oxford University Press, London.
6. Henderson, J.M. and R.E. Quandt (1980), Microeconomic Theory : A Mathematical Approach, McGraw Hill, New Delhi.
7. Hirshleifer, J. and A. Glazer (1997), Price Theory and Applications, Prentice Hall of India, New Delhi.
8. Kreps, David M. (1990), A Course in Microeconomic Theory, Princeton University Press, Princeton.
9. Koutsoyiannis, A. (1979), Modern Microeconomics, (2nd Edition), Macmillan Press, London.
10. Layard, P.R.G. and A.W. Walters (1978), Microeconomic Theory, McGraw Hill, New York.
11. Mishan, E.J. (1969), Welfare Economics : An Assessment, North Holland, Amsterdam.
12. Robert S. Pindyck, Daniel L. Rubinfeld, Prem L. Mehta (2009), Microeconomics (Seventh Edition), Pearson, New Delhi.
13. Sen, A. (1999), Microeconomics: Theory and Applications, Oxford University Press, New Delhi.
14. Stigler, G. (1996), Theory of Price, (4th Edition), Prentice Hall of India, New Delhi.
15. Varian, H. (2000), Microeconomic Analysis, W.W. Norton, New York.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
ECONOMICS
M. A. FIRST YEAR (SEMESTER – I)
Macro Economics Analysis (Compulsory)
(Paper No. II)

Periods: 50

Marks: 100 = Theory (ESE) 75 + Internal (CA) 25

Credit: 4

Course Outline: This course is designed to introduce the students to basic concepts as well as advanced theories in macroeconomics. The students will be able to use these concepts and theories to understand the relevance of macroeconomics to the real world. The students will be able to build on these concepts in the future to develop deeper understanding of the Economy.

Course Objectives:

1. To prepare the students to understand the principles of macroeconomic theory.
2. The emphasis will be on thinking like an economist and the course will illustrate how macroeconomic concepts can be applied to analyze real-life situations.
3. To facilitate understanding of the basic concepts of Macro Economics with the help of Mathematics.

Course Utility:

The course is useful for the students to understand the functional relationship between the large aggregates. The course equips the students at the postgraduate level to understand systemic facts and latest theoretical developments for empirical analysis.

Course Content:

Unit-I Basic concepts

Periods 12

Nature and scope of macroeconomics; macroeconomic variables; stocks and flows; Macroeconomic equilibrium. National Income: Concept and Measurement. Economic Welfare and National Income, free digital economy and GDP.

Unit-II Consumption Function

Periods 14

Keynes psychological law of consumption; short and long run consumption function; Income-consumption relations-Absolute income hypothesis; Relative income hypothesis; Life-Cycle hypothesis; Permanent income hypothesis.

Unit-III Investment Function

Periods 12

Concept of Investment function, Marginal efficiency of capital- Keynesian Theory; The Investment Multiplier (static and dynamic); The Accelerator theory and investment behavior; Inventory Investment; The Neo-classical theory of Investment.

Unit-IV Keynesian and Neo- Classical Synthesis

Periods 12

Classical system- Says Law; Keynesian system- Product market and Money Market; The IS-LM Model, Relative Effectiveness of Monetary and Fiscal Policies.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
ECONOMICS
M. A. FIRST YEAR (SEMESTER – II)
Macro Economics Analysis (Compulsory)
(Paper No. VI)

Periods: 50

Marks: 100 = Theory (ESE) 75 + Internal (CA) 25

Credit: 4

Course Content:

Unit-I Demand and Supply of Money

Periods 13

Classical quantity theory approach to demand for Money (Fisher and Cambridge equations), Keynes liquidity preference theory, Friedman's restatement theory of money demand; Inventory theoretic approach (Baumol), Tobin's portfolio balance approach; High powered Money and Money Multiplier.

Unit-II Theories of Inflation

Periods 12

Classical and Keynesian theory of Inflation; Monetarist approach; The Philips Curve, Philips curve and price expectation- Friedman; Natural rate of unemployment hypothesis, Tobin's Modified Philips curve.

Unit-III Role of Expectations

Periods 13

Keynes treatment of expectation; rational expectation hypothesis, Expectations and wage contracts, output and employment fluctuations; information economics; Hicks-Samulason Multiplier-Accelerator model of business cycles, Kaldar and Goodwin's Model of business cycles, Control of business cycles.

Unit-IV Macroeconomics in an Open Economy

Periods 12

National income accounting in an open economy, income determination; balance of payment and exchange rate, Mundell- Fleming Model under fixed and floating exchange rates.

References (Macro Economics Analysis for Semester-I & II, P/N II & VI):

Books:

1. Ackley G. (1978), Macroeconomics: Theory and Policy, Macmillan, New York.
2. Barro and Salai - e – Martin : Growth Economics, Prentice Hall
3. Begg (1982), The Rational Expectations Revolution.
4. Branson W.A. (1989), Macroeconomic Theory and Policy, (3rd Ed.), Harper and Row, New York.
5. Dornbusch, R. & Stanley F. (1997 & latest Ed.), Macroeconomics, McGraw Hill, Inc., New York.
6. Gordon R.J. Macroeconomics (latest edition).
7. Hall R.E. and J.B. Taylor (1986 & latest edition), Macroeconomics, W.W. Norton, New York.
8. Levacic R and A. Rebman (1986) – Macroeconomics; (2nd Ed, Macmillan).
9. Lucas R. (1981), Studies in Business Cycle Theory, M.I.T. Press, Cambridge, Massachusetts.
10. Mankiw G. N. Macroeconomics (latest edition).
11. Mueller M.G. (1966), Readings in Macroeconomics, Holt Rinehart and Winston, New York.
12. Patinkin D. (1965), Money, Interest and Prices, Harper and Row, New York.
13. Plosser, C. (1989): Understanding Real Business Cycles in Journal of Economic Perspectives (Summer).
14. Romer D.L. (1996), Advanced Macroeconomics, McGraw Hill Company Ltd., New York.
15. Sheffrin, S.M.(1996), Rational Expectations, Cambridge University Press, Cambridge
16. Taylor, L. (1983), Structuralist Macroeconomics, Basic Books, New Longman.

Research Papers (Macro Economics Analysis for Semester-I & II, P/N II & VI):

1. Leonard Nakamura, Jon Samuels, and Rachel Soloveichik, 2017, Measuring the “Free” Digital Economy Within the GDP and Productivity Accounts www.philadelphiafed.org/research-and-data/publications/working-papers.
2. Maddock, R. and M. Carter. 1982. ‘A Child’s Guide to Rational Expectations’, *Journal of Economic Literature*, 20 [39-51].
3. Mankiw, G.N. 1992. ‘The reincarnation of Keynesian economics’, *European Economic Review*, 36 [559-65].
4. Mayer, Thomas. 1975. ‘The structure of monetarism’, *Kredit und Kapital*, 8 [191-215].
5. Muth, J. 1961. “Rational Expectations and the Theory of Price Movements”, *Econometrica*, 29 (3), 315-25.
6. Sargent, T.J. and N. Wallace. 1976. “Rational Expectations and the Theory of Economic Policy”, *Journal of Monetary Economics*, 2, 169-83.
7. Stiglitz, J.E., 2000, "The contribution of the economics of information to 20th century economics," *The Quarterly Journal of Economics*, November.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
ECONOMICS
M. A. FIRST YEAR (SEMESTER – I)
International Economics (Optional)
(Paper No. -III)

Periods: 50

Marks: 100 = Theory (ESE) 75 + Internal (CA) 25

Credit: 4

Course Outline: The course provides a deep understanding about the broad principles and theories, which tend to govern the free flow of trade in goods, services and capital- both short-term and long-term at the global level. Besides, preparing the students about the relevance and limitations of these principles, the contents of the course spread over different modules, lay stress on the theory and nature of the subject which, in turn, will greatly help them to examine the impact of the trade policies followed both at the national and international levels as also their welfare implications at macro level and the distribution of gains from trade to North and South with particular reference to India.

Course Objectives:

1. To prepare the students to understand the principles of International trade theories.
2. The emphasis will be on the study of the impact of the trade policies and its welfare implications.
3. To facilitate the understanding of the globalised world and its impact on income, employment and social standards.

Course Utility:

The course is useful for the students to understand the functional relationship between the domestic markets with the world market. The course equips the students at the postgraduate level for the globalised world.

Course Content:

Unit-I Theories of International Trade

Periods 12

Production possibility frontier, relative demand, supply, prices; Ricardian model, Heckscher-Ohlin trade theory; Leontief paradox; theorem of factor price equalization, Rybzynski effect; Kenen's Theory of Human capital.

Unit-II Intra-Industry Trade

Periods 12

Intra-industry trade- causes and effects; The Brander-Krugman Oligopolistic model of intra industry trade, the international location of production, firms in the global economy- outsourcing and Multinational enterprises; International Labor and Capital Mobility.

Unit-III Measurement of Gains

Periods 14

Offer curves, Community indifference curve; Measurement of gains from trade and their distribution; concept of terms of trade- uses and limitations; Hypothesis of secular deterioration of terms of trade; Immiserizing growth; trade as an engine of growth.

Unit-IV The Theory of Interventions

Periods 12

Economic Effects of tariffs and quotas, Dumping, Trade Multiplier, the political economy of non-tariff barriers and their implications; Nominal, effective and optimum rates of tariffs. Growing protectionism and trade wars in recent years.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
ECONOMICS
M. A. FIRST YEAR (SEMESTER – II)
International Economics (Optional)
(Paper No. -VII)

Periods: 50

Marks: 100 = Theory (ESE) 75 + Internal (CA) 25

Credit: 4

Course Content:

Unit-I Balance of Payments (BoP)

Periods 14

Structure of BoP accounts, equilibrium and disequilibrium in the BoP; the Monetary Approach to BoP, Foreign Exchange Market- spot and forward rates; Interest Arbitrage, Hedging and Speculation; Effects of exchange rate changes on domestic prices and terms of trade, Mundell-Flemming Model.

Unit-II The International Institutions

Periods 12

Introduction to Brettonwoods system, International Monetary Fund (IMF) and its lending operation, Functions of World Bank (WB) and Asian Development Bank(ADB).

Multilateralism and World Trade Organization- TRIPS, TRIMS, Trade in Services, Doha Round of world trade negotiations; India's stand on various issues in world trade negotiation.

Unit-III Regional Blocks

Periods 12

Forms of economic co-operation, trade creation and trade diversion, static and dynamic effects; Rational and economic progress of SAARC and ASEAN, problems in forming of custom union in South Asia, European Union and BREXIT.

Unit-IV Trade and Indian Economy

Periods 12

Overview of trade problems; New Trade Policy of 2015-16; Recent changes in the direction and composition of trade and their implications; impact of trade reforms on Balance of Payment; India's foreign exchange rate policy and exchange rate management.

References (International Economics for Semester-I & II, P/N III & VII):

1. Appleyard A. Field, S.L. Cobb (1992), International Economics, McGraw-Hill Irwin.
2. Bhagwati J. (Ed.) (1981), International Trade, Selected Readings, Cambridge, University Press, Massachusetts.
3. Balassa B. (1962), The Theory of Economic Integration, George Allen & Unwin Ltd., London.
4. Chacholiades, M. (1990), International Trade: Theory and Policy, McGraw Hill, Kogakusha, Japan.
5. Corden W.M. (1974), Trade Policy and Economic Welfare, Clarendon Press, Oxford.
6. Kenen P.B. (1994), The International Economy, Cambridge University Press, London.
7. Kindleberger C.P. (1973), International Economics, R.D. Irwin, Homewood.
8. Krugman P.R. and M. Obstfeld (10th Edition), International Economics, Pearson.
9. Roy P.N. (1986), International Trade: Theory and Practice, New Age International Publishers, New Delhi.
10. Salvatore D. (11th Edition), International Economics, Trade and Finance, Wiley India.
11. Soderston & Reed (1994), International Economics, The Macmillan Press Ltd., London.
12. Uma Kapila (19th Ed.), Indian Economy- Performance and Policies, Academic Foundation, New Delhi.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED

ECONOMICS

M. A. FIRST YEAR (SEMESTER – II)

Financial Economics (Optional)

(Paper No. – III)

Periods: 50	Marks: 100 = Theory (ESE) 75 + Internal (CA) 25	Credit: 4
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Course Outline: The present course is designed to make the students conversant with the structure, operation, regulation and changing role of banking and financial markets in the process of economic growth and development. The positive and significant role of financial institutions in the process of growth and development has been very well recognized in the literature and indeed has become more important during the last few decades as the financial systems of different countries have become integrated in the process of globalization.

Course Objectives:

1. To learn basic concepts in the field of banking and finance;
2. To understand the working of various financial institutions and markets;
3. To enable students to grasp recent developments in this domain;
4. To encourage students to perform research in this sphere.

Course Utility:

After completing this course, students will be able to:

1. Use and explain the terminology, methods, techniques and conventions used in the study of banking and financial market;
2. Identify and explain the main functions of the banking and non-banking financial institutions;
3. Critically assess the impact of monetary policy on various aspects of economy;
4. Possess a solid grasp of the working of various financial institutions and markets required for the further studies in economics.

Course Content:

Unit-I Commercial Banking

Periods 12

Structure and evolution of banking system in India; Nationalization of banks-Progress and problems. Private sector banks; Emergence, Progress and problems. Guidelines for new private banks. Comparative performance of private and public sector banks. Priority sector lending, Regional Rural Banks, Cooperative banking system, Payment Banks.

Unit-II Banking Sector Reforms after 1991

Periods 14

Objectives of Financial Reforms; The Narasimham Committee (I & II). Problem of Non-performing assets: Magnitude and contributing factors; Indian Bankruptcy Code(IBC) and National Company Law Tribunal(NCLT)-Performance and issues. Marginal cost of funds based lending rate system. Capital Adequacy norms and Basel guidelines, Recapitalization of Public Sector Banks.

Unit-III Financial Inclusion

Periods 12

Meaning and need of financial inclusion; Extent and progress, recent initiatives of financial inclusion; Nachiket Mor committee on comprehensive financial services for Small Business and low Income households. Jan Dhan Scheme, MUDRA Loan Scheme, Farm loan waiver and its impact.

Unit-IV Non - Banking Financial Institutions

Periods 12

Definition and Classification of Non - Banking Financial Corporation's (NBFCs); Regulations of NBFCs in India; Performance of NBFCs in India.

Infrastructure Leasing and Financial Services (IL & FS) crisis; Housing Finance, Vehicle Finance, Gold Finance and NBFCs. Crisis in Housing Finance NBFCs.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
ECONOMICS
M. A. FIRST YEAR (SEMESTER – II)
Financial Economics (Optional)
(Paper No. – VII)

Periods: 50 Marks: 100 = Theory (ESE) 75 + Internal (CA) 25 Credit: 4

Course Content:

Unit I Introduction to Financial Institutions and Markets: Periods 12

Role of Financial assets, financial markets and financial institutions; Structure of financial market; Financial innovation and asset securitization; Problem of asymmetric information-Adverse selection and moral hazard; Financial development and economic growth; Financial crisis.

Unit-II Money Market Periods 12

Structure of financial markets; Money market-Features & constituents of the money market: Call money market; Treasury bill market; Certificate of deposits (CDs); Commercial papers (CPs); Functioning of Repo market; Money market mutual funds; Role of Discount and Finance House of India (DFHI); Reforms in the Indian money market.

Unit-III Capital Market Periods 13

Features & constituents of capital market; Government securities market (Gilt edged market) and industrial securities market; Future and options market; Reforms in the Indian capital market; Mutual funds-Importance and performance; Securities and Exchange Board of India (SEBI)-Functions and performance.

Unit-IV Central Banking and Monetary policy Periods 13

Goals, targets, indicators and instruments of monetary control, Monetary Policy Committee and Monetary Policy, Inflation targeting, Transmission of the Monetary policy, Growth and Inflation trade off , India's foreign exchange rate policy and exchange rate management, Autonomy and accountability of RBI.

References (Financial Economics for Semester-I & II, P/N III & VII):

Books:

1. Bhasin N.(2006), Banking Developments in India-1947 to 2007: Growth, Reforms & Outlook, New Century Publications, Ansari Road, Daryaganj, New Delhi - 110 002.
2. Bhole L. M.(2017), Financial Institutions and Markets, McGraw Hill Education(India) Private Limited, Porur, Chennai-600 116.
3. Baye M.R. and Jansen D.W., Money,Banking and Financial Markets, AITBS, 1996.
4. Dasai V. (2019), The Indian Financial System and Development Himalaya Publishing House Pvt. Ltd., Girgaon, Mumbai-400 004.
5. F.J. Fabozzi, F.Modigliani, F.J.Jones, M.G. Ferri, Foundations of Financial Markets and Institutions. Pearson Education, 3rd edition, 2009.
6. Gordon E. & Natrajan K.(2019), Banking Theory, Law and Practice, Himalaya Publishing House Pvt. Ltd., Girgaon, Mumbai-400 004.
7. Gupta S. B.(2010), Monetary Economics: Institutions, Theory & Policy, S. Chand & Company Ltd. Ram Nagar, New Delhi-110055.
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9. Hull J. H. & Basu H.(2018), Options, Future & Other Derivatives, Pearson India Education Services Pvt. Ltd., Taramani, Chennai-600 113.
10. Jadhav N. (2016), Monetary Policy, Financial Stability and Central Banking in India, Macmillan.
11. Khan M. Y.(2017), Indian Financial System, McGraw Hill Education(India) Private Limited, Porur, Chennai-600 116.
12. Kumar A., Shirma A. K. & Kommag G. (2018), Banking Industry and Non-performing Assets, New Century Publications, Ansari Road, Daryaganj, New Delhi - 110 002.
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14. Mishkin F. S., Eakins S. G., Jayakumar T. & Pattnaik R. K.(2017), Financial Markets and Institutions, Pearson India Education Services Pvt. Ltd., Noida, Uttar Pradesh-201 301.
15. Pathak B. V.(2018), Indian Financial System, Pearson India Education Services Pvt. Ltd., Taramani, Chennai-600 113.
16. Rakesh Mohan, Growth with Financial Stability- Central Banking in an Emerging Market, Oxford University Press, 2011.

Reports:

1. CII and PWC (2019) Decoding the Code: Survey on Twenty One Months of IBC in India.
2. RBI-Report, October 4, 2017: “Report of the Internal Study Group to Review The Working of the Marginal Cost of Funds Based Lending Rate System”, RBI, September, 2017, Chapter I (p.1-2) and Chapter 2 (p.5-7).
3. Reserve Bank of India (2018/Latest), Report on Trends and Progress of Banking in India, Reserve Bank of India, Shahid Bhagat Singh Marg, Mumbai 400 001.
4. Reserve Bank of India (2018/Latest), Annual Report, Reserve Bank of India, Shahid Bhagat Singh Marg, Mumbai 400 001.
5. RBI Bulletin (Oct.2012): Basel III in International and Indian context by D. Subbarao, Reprinted in Indian Financial Reforms edited by Uma Kapila.
6. RBI Development Research Group study No. 33, Exchange Rate Policy and Modelling in India by Dua Pami and Ranjan Rajeev. Feb. 2010.

Research Papers/Articles:

1. Chikarmane Gautam (2018): “RBI versus the Government: Independence and Accountability in a Democracy”, ORF Occasional Paper 179, December 2018.
2. Dalal S. (2019), At Last, RBI’s Accountability is being questioned in multiple forums”, Monelife.in, March 11, 2019.
3. Jayaraman T.K.,(2017), RBI’s Independence: The Dangerous Line Between Autonomy and Accountability”, The Wire, June 10,2017.
4. Kulkarni A. (2019), IL & FS Crisis and Its Impact on NBFCs and HFCs, February 12, 2019. moneylife.in.
5. Lybek T. (2004), Central Bank Autonomy, Accountability, and Governance: Conceptual Framework, IMF.
6. Sengupta and Vardhan (25 March, 2017), Non-performing Assets in Indian Banks, Economic and Political Weekly, vol.52, Issue No. 12.
7. Srivastava S. and Sarkar P. (2019), NBFC Crisis: Running on empty, Forbes India, January 18, 2019 issue.
8. The Week Research Team(2018), Explained: What is IL & FS Crisis and how bad it is? The Week, September 25, 2018.
9. Vasudevan A. (2017), Reflections on Analytical Issues in Monetary Policy, Economic and Political Weekly, vol.52, Issue No. 12, 25 March, 2017.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
ECONOMICS
M. A. FIRST YEAR (SEMESTER –I)
MATHEMATICAL ECONOMICS (Optional)
(Paper No.–IV)

Periods: 50 Marks: 100 = Theory (ESE) 75 + Internal (CA) 25 Credit: 4

Course Outline: Mathematics is increasingly important in terms of the expression and communication of ideas in economics. A fair knowledge of mathematics is indispensable for understanding almost all fields of economics, including both applied and theoretical fields. Advanced economics makes extensive use of formal mathematical models. This course covers the basic mathematical techniques required for rigorous study of economic ideas and conduct research in economics.

Course Objectives:

1. To learn basic concepts in mathematics applicable to economics;
2. To understand how various mathematical tools are used in economics;
3. To enable students to grasp recent developments in economics;
4. To encourage students to perform economic research by using mathematical tools and techniques.

Course Utility:

After completing the course, students will be able to:

1. Use and explain the mathematical principles, terms, methods and conventions used in economics;
2. Develop a set of problem-solving and analytical skills to solve problems in economics and other fields of study and everyday decisions;
3. Develop an initial understanding of how to frame economic models in mathematical format;
4. Possess a solid grasp of essential math tools required for the further studies in economic theory.

Course Content:

Unit-I Quantitative Methods

Periods 14

Variables, constants and parameters; Sets, limit and continuity; Sequence and series; Simple functional relationship and their graphs; Elementary ideas of differential and integral Calculus; Matrix and determinants; Solution of simultaneous equations; Quadratic equations; Difference and differential equations.

Unit-II Theory of Consumer Behaviour

Periods 12

Cardinal and ordinal utility; Ordinal utility maximization; Slutsky equation; Compensated demand functions; Separable and additive utility functions; Indirect utility functions; Duality theorem; Consumer's surplus; Linear expenditure systems; Concept of elasticity.

Unit-III Theory of Production

Periods 12

Production function: homogeneous and non-homogeneous; Cobb-Douglas production function and its Properties, CES production function its Properties; Simple derivation of short and long run cost functions; Analysis of joint profit maximization and multi-product firm; Production possibility curve; Empirical uses of production function analysis.

Unit-IV Price Determination

Periods 12

Price determination in perfect competition, monopoly, monopolistic competition, duopoly, oligopoly and monopsony; Bilateral monopoly.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
ECONOMICS
M. A. First Year (SEMESTER –II)
MATHEMATICAL ECONOMICS (Optional)
(Paper No.–VIII)

Periods: 50 Marks: 100 = Theory (ESE) 75 + Internal (CA) 25 Credit: 4

Course Content:

Unit-I Market Equilibrium

Periods 12

Single market equilibrium: One commodity and two commodity model, Marshallian and Walrasian equilibrium conditions; Lagged market equilibrium; Multi-market equilibrium; General equilibrium systems of Walras.

Unit-II Determination of Income and Growth Models

Periods 12

Classical and Keynesian macro system; Static and dynamic multiplier; Determinants of investment; Accelerator; Trade cycle model of Samuelson and Hicks. Consumption Function.

Harrod-Domar growth model; Neoclassical model of growth; Solow and Meade growth models with technical progress; Optimal growth; and golden rule of accumulation; Growth accounting; Endogenous growth.

Unit-III Game Theory Analysis

Periods 12

Concept of game; Types of games; Two-person zero-sum game; Pay-off matrix; Pure and mixed strategy games; Maximin and minimax solutions; Saddle point solution; Non-constant sum game; Prisoner's dilemma; Concept of Nash Equilibrium.

Unit-IV Linear Programming and Input-Output Analysis

Periods 14

Concept & Formulation of Linear programming; Primal and dual problem, Simplex method; applications of linear programming in economics.

Concept of Input-output analysis; Open and closed systems; Hawkins-Simon conditions; Leontief's dynamic system.

References (Mathematical Economics, For Semester I & II, P/N IV & VIII):

1. Allen, R.G.D. (1979), Macro-Economic Theory: A Mathematical Treatment, the Macmillan Press Ltd, London and Basingstoke.
2. Allen, R.G.D. (2000), Mathematical Analysis for Economists, Macmillan India Limited, Daryaganj, New Delhi-110 002.
3. Anthony M. & Biggs N.(2000), Mathematics for Economics and Finance, Cambridge University Press, New York, NY-10011-4211.
4. Baldani J., Brandfield J. & Turner R. W.(2007), An Introduction to Mathematical Economics, South-Western, a Part of Cengage Learning Private Limited, Patpargang, New Delhi-110 092.
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9. Henderson J. M. & Quandt R. E.(2017), Microeconomic Theory: A Mathematical Approach, McGraw-Hill Education(India) Edition, Porur, Chennai-600 116.
10. Hoy M., Livernois J., McKenna C., Rees R., & Stengos T.(2018) Mathematics for Economist, PHI Learning Private Limited, Patpargang, Delhi-110 092.
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16. Sydseter K., Hammond P., Storm A. & Carvajal A.(2016), Essential Mathematics for Economic Analysis, Pearson Education Limited Edinburgh Gate, Harlow CM20 2JE, United Kingdom.
17. Tandon P. (2005), A Textbook of Microeconomic Theory, Sage Publications India Pvt Ltd, Mathura Road, New Delhi-110 044.
18. Watson J. (2015), Strategy: An Introduction to Game Theory, Viva Books, Ansari Road New Delhi-110 002.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
ECONOMICS
M. A. FIRST YEAR (SEMESTER – I)
Demography (Optional)
(Paper No.–IV)

Periods: 50

Marks: 100 = Theory (ESE) 75 + Internal (CA) 25

Credit: 4

Course Outline: The main objective of this course is to make the students aware of the importance of population in economic development and the various theories that explain the growth of population in a country. The course also enlightens the students on the quantitative and the qualitative aspects and characteristics of the population through various demographic techniques. In recent times, gender characteristics of the population have acquired importance and these have also been included in the framework of study. Migration and urbanization are the characteristics of structural change taking place in a society. Their study is essential to understand the dynamics of this change. The paper exposes the students to sources of population and related characteristics as also to the rationale, need and evolution of population policy.

Course Objectives:

1. Comprehend the basic concepts and definitions in Demography;
2. Identify the various sources of data in Demography;
3. Describe the population growth scenario of the world, India and its states;
4. Relate the history of population growth to the present day structure and composition of population.

Course Utility:

The course is useful for the students to understand the importance of population in economic development and need for population policy. The course is also useful in understanding the dynamics of migration and urbanization.

Course Content:

Unit I Population and Development

Periods 13

Meaning and scope of demography; components of population growth and their interdependence; Structure, distribution and sources of population data;

Theories of population-Malthus, Optimum theory of population; theory of demographic transition-Views of Meadows, Enke and Simon; Population and development, demographic dividend.

Unit II Structure of Population

Periods 12

Population explosion-Threatened or real, distant or imminent; Simple and Compound growth of population, international aspects of population growth and distribution; Pattern and Determinants of age and sex structure; Demographic effects of sex and age structure, economic and social implications; Age pyramids and projections-Individual aging and population aging; Population policy of India.

Unit III Fertility, Morbidity and Mortality

Periods 13

Importance of study of fertility-Total fertility rate; Gross reproduction rate and net reproduction rate; Levels and trends of fertility in more and less developed countries; Factors affecting fertility.

Morbidity patterns of developing and developed countries, communicable and non-communicable diseases- Trends and patterns in India, Morbidity and mortality link. Mortality-Death rates, crude and age-specific; Mortality at birth and infant mortality rate;

Levels and trends in more and less developed countries; Sex and age pattern of mortality; Factors for decline in mortality in recent past.

Unit IV Migration, Urbanization and Life Table

Periods 12

Concept and types-Temporary, internal and international; International migration-Its effect on population growth; Factors affecting migration; Urbanization-Growth and distribution of rural-urban population in developed and developing countries.

Life table-Concepts, Assumptions, Construction and uses; Concepts of stable population; Methods of population projection.

References (Demography, for Semester I, P/N IV):

1. Agarwala S. N. (1972), India's Population Problem, Tata McGraw Hill Co., Bombay.
2. Bose A. (1996), India's Basic Demographic Statistics, B. R. Publishing Corporation, New Delhi.
3. Bogue D. J. (1971), Principles of Demography, John Wiley, New York.
4. Chenery H. and T. N. Srinivasan (Eds.) (1989), Hand Book of Development Economics, Vol. 1 & 2 Elsevier, Amsterdam.
5. Choubey P. K. (2000), Population Policy in India, Kanishka Publications, New Delhi.
6. Coale A. J. and E. M. Hoover (1958), Population Growth and Economic Development in Low Income Countries: A Case Study of India's Prospects, Princeton University Press, Princeton.
7. Gulati S. C. (1988), Fertility in India: An Econometric Study of a Metropolis, Sage, New Delhi.
8. Henry Louis, Population Analysis and Model: London, Edward Arnold Hinde Andrew, Demographic Methods: London, Arnold
9. Monica Das Gupta, L C Chen and T N Krishnan (Editors) "Epidemiologic and morbidity transition" in the book Health, Poverty and Development in India
10. Simon J. L. (1992), Population and Development in Poor Countries, Princeton University Press.
11. Srinivasan K. (1998), Basic Demographic Techniques and Applications, Sage, New Delhi.
12. Srinivasan K. and A. Shariff (1998), India: Towards Population and Demographic Goals, Oxford University Press, New Delhi.
13. Sryrock H. (1973), the Methods and Materials of Demography, US Department of Commerce, Washington D. C.

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY, NANDED
ECONOMICS
M. A. FIRST YEAR (SEMESTER – II)
Environmental Economics (Optional)
(Paper No. –VIII)

Periods: 50 Marks: 100 = Theory (ESE) 75 + Internal (CA) 25 Credit: 4

Course Outline: Environment is a part and parcel of living things in general and human beings in particular. Hence for their well being environmental balance, preservation and protection is of vital importance. Environment can have economic aspects, which are neglected in the studies in main stream economics and its branches. This necessitates studying Economics of Environment as an Elective course at post graduate level.

Course Objectives:

1. Comprehend the basic concepts and definitions in Environmental Economics;
2. To learn to use of main stream economics to environmental issues;
3. Learn to appreciate the relationship between environment and development;
4. Relate the environment with the present developmental needs and beyond.

Course Outcome:

The course is useful for the students to understand the importance of Environment in economic development and need for Environmental policy. The course is also useful in understanding the dynamics of Environment, People and Sustainable Development.

Course Content:

Unit I Introduction to Environmental Economics **Periods 12**

Definition, need, nature and scope of Environmental economics; relation between Environmental economics and economics, Ayres-Kneese's material balance model.

Economy and the Environment Interactions: elements of ecology, ecosystem cycles, carrying capacity, ecological footprint, The Quality of Environment and regulation.

Unit II Market failure and Externalities **Periods 12**

Efficiency of markets: Efficiency and competitive markets, Market failure -public bad and externalities. Some environmental regulation tools -direct and indirect-pollution fees, emission trading rights, taxes on inputs/outputs of polluting activities, subsidies for adopting cleaner technologies, effluent treatment plants, deposit refund system; Property rights and Coase theorem.

Unit III Sustainable Development **Periods 13**

Sustainable development-Concept, measurement, indicators and obstacles to sustainable development, Kuznets curve; Reduce, recycle and reuse; Techno centric solutions. Development and environmental issues; Environment legislation in India.

International environmental issues –ozone depletion, global warming and climate change, bio diversity loss, endangered species, desertification, international trade issue-international cooperation.

Unit IV Environmental Valuation and Instruments **Periods 13**

Need for environmental valuation, concept of total economic value; cost-benefit analysis, cost effectiveness analysis. Methods of economic valuation of environment (concepts)-methods based on market prices-change in productivity technique, change in income technique, replacement technique, preventive technique, relocation technique.

Surrogate method- travel cost and hedonic, simulated method or survey method-contingent valuation method .Limitation of environmental valuation.

References (Environmental Economics, for Semester II, P/N VIII):

1. Bhattacharya N. R. (2001), Environmental Economics- An Indian Perspective. Oxford University Press, Delhi.
2. Dasgupta P.(2001), Human Well-Being and the Natural Environment OUP.
3. Hussien A. (2013), Principles of Environmental Economics and Sustainability-An integrated economic and ecological approach Third Edition Routledge London and New York.
4. Kolstad C. D. (2019) Environmental Economics. Oxford University Press, Delhi.
5. Molly Scott Cato (2011), Environment and Economy Routledge Introduction to Environment Series Routledge London and New York.
6. Muthukrishnan S. (2015) Economics of Environment, Prentice Hall India Pvt ltd.
7. Sengupta R.(2004), Ecology and Economics: An Approach to Sustainable Development OUP.
8. Shogren J. Hanley N. and White B. (2013), Introduction to Environmental Economics, 2nd Ed, Oxford: Oxford University Press.

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॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

“Dnyanteerth”, Vishnupuri, Nanded - 431606 Maharashtra State (INDIA)

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संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदव्युत्तर स्तरावरील प्रथम वर्षाचे CBCS Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ३० एप्रिल २०१९ रोजी संपन्न झालेल्या ४३व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.५/४३-२०१९ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदव्युत्तर स्तरावरील प्रथम वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्यात येत आहेत.

- १) एम.ए.—प्रथम वर्ष—इंग्रजी
- २) एम.ए.—प्रथम वर्ष—हिंदी
- ३) एम.ए.—प्रथम वर्ष—मराठी
- ४) एम.ए.—प्रथम वर्ष—संस्कृत
- ५) एम.ए.—प्रथम वर्ष—उर्दू
- ६) एम.ए.—प्रथम वर्ष—अर्थशास्त्र
- ७) एम.ए.—प्रथम वर्ष—भूगोल
- ८) एम.ए.—प्रथम वर्ष—इतिहास
- ९) एम.ए.—प्रथम वर्ष—तत्त्वज्ञान
- १०) एम.ए.—प्रथम वर्ष—राज्यशास्त्र
- ११) एम.ए.—प्रथम वर्ष—मानसशास्त्र
- १२) एम.ए.—प्रथम वर्ष—लोकप्रशासन
- १३) एम.ए.—प्रथम वर्ष—समाजशास्त्र

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,
विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदव्युत्तर-सीबीसीएस अभ्यासक्रम/
२०१९-२०/६७

दिनांक : १७.०६.२०१९.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

स्वाक्षरित/—

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग

Swami Ramanand Teerth Marathwada University, Nanded
Postgraduate Syllabus (M.A.-English First Year) W.E.F. 2019-20

Semester	Paper No.	Name of the Course/Title	C.I.E.	E.S.E.	Credits
I	1	Phonetics & English Phonology	25	75	04
	2	English Literature-I (Old English, Middle English and Renaissance)	25	75	04
	3	English Literature –II (Neoclassical and Romantic)	25	75	04
	4	A) Indian Writing in English B) Western Classical Literature	25	75	04
II	5	Modern English Structure	25	75	04
	6	English Literature –III(Victorian)	25	75	04
	7	English Literature –IV(Modern and Postmodern)	25	75	04
	8	A) American Literature B) Non-western Classics	25	75	04

Teaching: Periods per paper-50 (All Papers)

Evaluation: Continuous Internal Evaluation (All Papers)-

Two class tests of 05 marks each+ Home Assignment of 10 marks+ Seminar of 05 marks= 25 marks

End Semester Examination(All Papers)-

75 marks

Semester I

Course 01-Phonetics & English Phonology

Rationale:

The study and good acquaintance with basics of language and Linguistics constitutes an obligatory part of Post Graduate studies. The present course has been designed with the objectives pertaining to the students' acquaintance with human speech mechanism and sound system of the English language. The course aims at students' understanding of some of the basic notions of Phonetics from sound to utterance level. It also tries to make the students know the important international varieties and their phonological, lexical and usage related differences

Unit I: Introduction to linguistics

A) Definition of a Language, A Short History of English Language, Verbal & Non-Verbal Communication, Human, Animal and other means of Communication,

B) Linguistics in historical context, Branches of Linguistics , Levels of Linguistic Analysis,

Unit II: Speech Mechanism and Speech Sounds

A) Speech Mechanism, Organs of Speech.

B) English Speech Sounds: Vowels and Consonants

Unit III: Units of Speech

A) Phoneme, Syllable and Stress

B) Phonetic Transcription of Words

Unit IV: Connected Speech

A) Weak Forms, Elision and Assimilation

B) Tone Groups, Intonation and Sentence Transcription

Unit V: Varieties of English

A) International Varieties: British, American, African, Indian, Australian

B) Social Varieties: Speech Community, Speech Event, Speech Act, Dialects, Registers, Styles, Diglossia, Code-Switching and Code-Mixing, Tigidins and Creoles.

Reference books:

Arnold G.F., Gimson A C. *English Pronunciation Practice*, London : University Press, 1965

Bansal, R.K. and J. B. Harrison. *Spoken English*. Orient Longman, 1984.

DeLacy, Paul, ed. *The Cambridge Handbook of Phonology*, Cambridge University Press, 2007.

Gimson A. C. *An Introduction to the Pronunciation of English*, 1964

Sethi, J., and P. V. Dhemeja. *A Course in Phonetics and Spoken English*. Prentice Hall, 1989.

O'Conner, J.D. *Better English Pronunciation of English*. CUP, 2000.

Roach Peter. *English Phonetics and Phonology*, Cambridge University Press, 2009

Structure of Question Paper

Q.1 An essay type question with internal choice on Unit I---15 Marks

Q.2 a) Short answer type of question on Unit II A---- 07 Marks

b) Three term label 08 Marks

Q.3 a) Short answer type of question on Unit III A 07 Marks

b) Phonetic transcription of 08 words 08 Marks

Q.4 a) Short answer type of question on Unit IV (A+ B) 07 Marks

b) Phonetic transcription of 08 sentences 08 Marks

Q.5 An essay type question with internal choice on Unit V 15 Marks

Course 2 : English Literature-I (Old English ,Middle English and Renaissance)

Rationale:

This is the first course in the series of four papers on English literature. It attempts to trace the development of English literature from its origins in the Anglo- Saxon period to the end of the English Renaissance .The Anglo Saxon stories with times became the sagas of the Gods and wars. The great heroes arose from them and became divine as the years passed by. This is the origin of literature which began with the unhistorical era moving from mouth to mouth. War songs, the riddles, The epic poems were mainly written in this period. With the Norman Conquest of England in 1066 a new era of French representation began in terms of literature and education at large. The middle English then brought its romance and chivalry .Leading its way to the Renaissance which highly indulged into translations. This period was the period of Nationalism, Humanism, and social contentment and material advancement. The literature of this period brings it out as an age of printing, education and new discoveries.

Unit I : Background

- 1)Old English Poetry and Prose, 2) Early Middle English Prose and Poetry,
- 3) Later Middle English Prose and Poetry, 4) Renaissance in England, 5) Features of the Elizabethan Age, 6)Elizabethan and Early Stuart Drama, 7)Metaphysical Poets and Cavalier Poets, 8) Chroniclers, Diarists, and Court Wits

Unit II : Nonfictional Prose

- 1) *Novum Organum*: Sir Francis Bacon , 2) *Aeropagitica* : John Milton

Unit III : Fiction

- 1) *The Arcadia*: Sir Philip Sidney, 2) *Eupheus, the Anatomy of Wit*: John Lyly

Unit IV : Poetry

- 1) *The Pardoner's Tale*: Geoffrey Chaucer,
- 2) *The Shepheardes Calender* : Edmund Spenser

Unit V : Drama

- 1) *Volpone* : Ben Jonson
- 2) *As You Like It*: William Shakespeare

Reference books

- Baugh, Albert and Cable, Thomas. *The History of the English Language*. Upper Saddle River, New Jersey: Prentice Hall, 2002.
- Davies, Marion Wynne, ed. *The Bloomsbury Guide to English Literature*, New York: Prentice Hall, 1990.
- Drabble, Margaret, ed. *The Oxford Companion to English Literature*, Oxford: Oxford University Press, 1996
- Fulk, RD; Cain, Christopher M, A. *History of Old English Literature*, Malden: Blackwell, 2003.
- Hadfield, Andrew. *The English Renaissance, 1500-1620*, 2001.
- Kaiser, Rolf, ed. *Medieval English: an Old English and Middle English anthology*; 3rd ed. Berlin: Rolf Kaiser, 1958.
- Robinson, Fred C. *The Cambridge Companion to Old English Literature*, Cambridge: Cambridge University Press, 2001.
- Waller, Gary F. *English Poetry of the Sixteenth Century*. London: Routledge, 2013.

Web Resources

- <http://vos.ucsb.edu/browse.asp?id=1163>
- <http://www.luminarium.org>
- www.britannica.com
- www.goodreads.com
- www.globalgreybook.com

Question Paper Pattern

- Question1. Short Notes with Internal Choice (any 3 out of 5) on unit I - 15 marks.
- Question2. Descriptive answer type question with internal choice on unit II - 15 marks.
- Question3. Descriptive answer type question with internal choice on unit III - 15 marks.
- Question4. Descriptive answer type question with internal choice on unit IV - 15 marks.
- Question5. Descriptive answer type question with internal choice on unit V - 15 marks.

Course 3: English Literature –II (Neoclassical and Romantic)

Rationale:

The course attempts to cover the Neoclassical and Romantic periods in English Literature. It includes texts from the Restoration, Augustan, and Romantic ages. The period witnessed news become a commodity, the essay develop into a periodical art form, and the beginnings of textual criticism. It was a literary epoch that featured the rapid development of the novel, an explosion in satire, the mutation of drama from political satire into melodrama and an evolution toward poetry of personal exploration. In philosophy, it was an age increasingly dominated by empiricism, while in the writings of political economy, it marked the evolution of mercantilism as a formal philosophy, the development of capitalism and the triumph of trade. The Romantic period was one of major social change in England, because of the depopulation of the countryside and the rapid development of overcrowded industrial cities, that took place in the period roughly between 1798 and 1832. A study of representative texts from these ages is seminal for overall understanding of English Literature.

Unit I : Background

- 1) Restoration Drama, 2) Political Journalism in the 18th Century, 3) Restoration Poetry,
- 4) Early Novelists, 5) The Nature of Romanticism, 6) Early Romantic Poetry,
- 7) Later Romantics, 8) The Gothic Novel

Unit II : Nonfictional Prose

- 1) *Coverley Papers*: Joseph Addison , 2) *A Treatise of Human Nature*: David Hume

Unit III : Fiction

- 1) *Waverley*: Sir Walter Scott, 2) *Moll Flanders*: Daniel Defoe

Unit IV : Poetry

- 1) *The Lucy Poems*: William Wordsworth,
- 2) *The Rape of the Lock* : Alexander Pope

Unit V : Drama

- 1) *All for Love*: John Dryden
- 2) *The Way of the World*: William Congreve

Reference Books

- Bayer, Gerd . *Novel Horizons: The Genre Making of Restoration Fiction*. Manchester UP, 2016.
- Hume, Robert D. *The Development of English Drama in the Late Seventeenth Century*. Oxford: Clarendon Press, 1976.
- Greenblatt, Stephen; Lipking, Lawrence and James Noggle (eds.) *The Norton Anthology of English Literature, Volume C: The Restoration and the Eighteenth Century* ,New York: W. W. Norton and Co., 2006.
- Legouis, Emile. *A History of English Literature*, trans W. D. MacInnes and Emile Legouis. New York: Macmillan Company, 1957.
- Rogers, Pat *The Augustan Vision* ,London: Methuen, 1974.
- Tillotson, Geoffrey and Fussell, Paul (eds.) . *Eighteenth-Century English Literature*. New York: Harcourt, Brace, and Jovanovich, 1969.
- Watt, Ian. *The Rise of the Novel: Studies in Defoe, Richardson and Fielding*. Los Angeles: U California Press, 1957.
- White, T. H. *The Age of Scandal*. Penguin Books, 1964.
- William Harmon and C. Hugh Holman, *A Handbook to Literature*. Upper Saddle River, New Jersey: Prentice Hall, 1986.

Web Resources

- <https://www.bl.uk/romantics-and-victorians/themes/romanticism>
- <https://www.bbc.com/bitesize/subjects/zckw2hv>
- http://www.online-literature.com/author_index.php
- <https://www.litencyc.com/>
- <https://www.bartleby.com/cambridge/chapterindex.html>

Question Paper Pattern

- Question1. Short Notes with Internal Choice (any 3 out of 5) on unit I - 15 marks.
- Question2. Descriptive answer type question with internal choice on unit II - 15 marks.
- Question3. Descriptive answer type question with internal choice on unit III - 15 marks.
- Question4. Descriptive answer type question with internal choice on unit IV - 15 marks.
- Question5. Descriptive answer type question with internal choice on unit V - 15 marks.

Course No.4 (Elective)

(A) Indian Writing in English

Rationale

Indian literature in English is considered to be an integral part of contemporary literary creations in the English language. The present course is designed so as to provide an introductory idea to the students about some landmarks in IWE. The texts prescribed range from writings made in the Colonial period and come to the contemporary times where this colonialism is questioned. Students can form a fairly comprehensive idea about the nature of IWE and the changing thematic concerns by a close reading of these texts. The use of Indian English and the representation of the Indian ethos are very well represented in all of the literary pieces selected for this course.

Unit I: Nonfictional Prose

- 1) *Autobiography of an Unknown Indian*: Nirad C. Chaudhari
- 2) *An Era of Darkness*: Shashi Tharoor

Unit II: Novel

- 1) *Coolie* :Mulk Raj Anand
- 2) *The Shadow Lines* :Amitav Ghosh

Unit III: Short Fiction

- 1) *A Flight of Pigeons* : Ruskin Bond
- 2) *Sultana's Dream*: Rokeya Sakhawat Hossain

Unit IV: Poetry

- 1) *The Royal tombs of Golkonda, Life, The Soul's Prayer, the Gift of India, The Bangle Sellers* :Sarojini Naidu
- 2) *Enterprize, Soap, Philosophy, The Professor, The Night of the Scorpion* :Nissim Ezekiel

Unit V: Drama

- 1) *The King of the Dark Chamber*: Rabindranath Tagore
- 2) *Tara*: Mahesh Dattani:

Question Paper Pattern

- Question1. Descriptive answer type question with internal choice on unit I - 15 marks.
Question2. Descriptive answer type question with internal choice on unit II - 15 marks.
Question3. Descriptive answer type question with internal choice on unit III - 15 marks.
Question4. Descriptive answer type question with internal choice on unit IV - 15 marks.
Question5. Descriptive answer type question with internal choice on unit V - 15 marks.

Reference books

- Haq, Kaiser (ed.). *Contemporary Indian Poetry*. Columbus: Ohio State University Press, 1990.
- Hoskote, Ranjit (ed.). *Reasons for Belonging: Fourteen Contemporary Indian Poets*. Viking/Penguin Books India, New Delhi, 2002.
- Singh, Bijender. "Indian Writing in English: Critical Insights." New Delhi, Authorspress, 2014.
- Joseph, Margaret Paul. "Jasmine on a String: a Survey of Women Writing English Fiction in India." Oxford University Press, 2014.
- King, Bruce Alvin. *Modern Indian Poetry in English: Revised Edition*. New Delhi: Oxford University Press, 1987, rev. 2001.
- King, Bruce Alvin. *Three Indian Poets: Nissim Ezekiel, A K Ramanujan, Dom Moraes*. Madras: Oxford University Press, 1991.
- Mehrotra, Arvind Krishna (ed.). *The Oxford India Anthology of Twelve Modern Indian Poets*. Calcutta: Oxford University Press, 1992.
- Mehrotra, Arvind Krishna (ed.). *A History of Indian Literature in English*. New York: Columbia University Press, 2003. Distributed in India by Doaba Books Shanti Mohan House 16, Ansari Road, New Delhi.
- Parthasarathy, R. (ed.). *Ten Twentieth-Century Indian Poets (New Poetry in India)*. New Delhi: Oxford University Press, 1976.
- Prem, PCK. *English Poetry in India: A Comprehensive Survey of Trends and Thought Patterns* New Delhi: Authorspress, 2011.
- Reddy, T. Vasudeva. *A Critical Survey of Indo-English Poetry* New Delhi: Authorspress, 2016.
- Sadana, Rashmi. "Writing in English," in *The Cambridge Companion to Modern Indian Culture*. Cambridge: Cambridge University Press, 2012.
- Sadana, Rashmi. *English Heart, Hindi Heartland: the Political Life of Literature in India*. Berkeley: University of California Press, 2012.
- Souza, Eunice de. "Nine Indian Women Poets", Delhi, Oxford University Press, 1997.
- Souza, Eunice de. *Talking Poems: Conversations With Poets*. New Delhi: Oxford University Press, 1999.
- Souza, Eunice de. *Early Indian Poetry in English: An Anthology : 1829-1947*. New Delhi: Oxford University Press, 2005.

Web Resources

- <http://www.museindia.com/>
<https://www.mhrd.gov.in/e-content>
<https://crossref-it.info/>

Course 4 (B): Western Classics

Rationale

This course consists of the texts considered to be the foundational works in the western tradition of literature. Western literature generally includes all the literature written in the European languages. The Greek and Roman civilizations have established a canon of the classical western literature. Some major texts from this canon are prescribed here for close reading. The writers of the modern period have often acknowledged their indebtedness to these great works. A study of these classics will help in acquiring an understanding of the cultural and literary bases of the European mind.

Unit I

- 1) *Odeyssey* : Homer
- 2) *Works and Days* : Hesiod

Unit II

- 1) *Agamemnon*: Aeschylus
- 2) *Antigone*: Sophocles

Unit III

- 1) *Dyskolos* : Menander
- 2) *Epiducus* : Plautus

Unit IV

- 1) *Republic* : Plato
- 2) *Poetics* : Aristotle

Unit V

- 1) *Aeneid*: Virgil
- 2) *Medea* : Seneca

Question Paper Pattern

- Question1. Descriptive answer type question with internal choice on unit I - 15 marks.
Question2. Descriptive answer type question with internal choice on unit II - 15 marks.
Question3. Descriptive answer type question with internal choice on unit III - 15 marks.
Question4. Descriptive answer type question with internal choice on unit IV - 15 marks.
Question5. Descriptive answer type question with internal choice on unit V - 15 marks.

Reference Books

- Hirsch, E. D.; Trefil, James; Kett, Joseph F. . *The dictionary of cultural literacy*. Boston: Houghton Mifflin, 1988.
- Knox, Bernard . *The oldest dead white European males and other reflections on the classics*. New York: W.W. Norton. 1994. .
- Bloom, Harold .*The Western canon: the books and school of the ages*. New York: Riverhead Books, 1995.
- Ross, Trevor. *The making of the English literary canon from the Middle Ages to the late eighteenth century*. Montreal Que: McGill-Queen's University Press, 1995..
- Kolbas, E. Dean (2001). *Critical Theory and the Literary Canon*, Boulder: Westview Press.
- Morrissey, Lee . *Debating the Canon: A Reader from Addison to Nafisii*. New York: Palgrave Macmillan, 2005.

Web Resources

<https://sites.google.com/site/theenglishliterarycanon/>

Semester II

Course No. 05

Modern English Structures

Rationale: This course caters to the learners' need of understanding various levels of language analysis. Language analysis spans from word to the complex sentence. The course aims to make the learners understand and use Immediate Constituents. The stretch of language analysis is summed up by introducing some basic notions in Semantics and Pragmatics.

Unit I: Morphology

A) The Processes of Word Formation

B) Morphological Analysis

Unit II: Syntax: Word Classes and Phrases

A) Major and Minor Word Classes

B) Phrase Structures: NP, VP, PP, Adj P, Adv P

Unit III: Syntax: Clauses

A) Basic Clause Types and Clause Elements, Simple and Compound Sentences

B) Types and Functions of Subordinate Clauses, Complex and Compound Complex Sentences

Unit IV: Syntax and Semantics

A) Narration: Direct and Indirect, Voice: Active and Passive

B) Study of Ambiguity, Form and Meaning

Unit V: Semantics and Pragmatics

A) Varieties of Meaning: Sense and Reference, Denotation and Connotation, Components and

Contrast of meaning: Phones, Graphs and Nyms

B) Referential Use of Language, Speech Acts: Levels and Types, Conversation

Analysis/Discourse Analysis, Entailment and Presupposition, Sentence Meaning and

Utterance Meaning

Reference books

Akmajian, A et al, *Linguistics: An Introduction To Language And Communication*, New Delhi Practice Hall of India, 1996 (fourth ed) 2010 (Fifth ed)

Chomsky, Noam. *Syntactic Structures*, Berlin: Mouton, (1957) reprint 2004.

Griffiths, Patrics. *An Introduction to English Semantics and Pragmatics*, Edinburgh:

Edinburgh Univ. Press, 2006.

Jeffries, Lesley. *Discovering Language, The Structure of Modern English*, New

York: Palgrave, 2006.

Question Paper Pattern

Q.1 a) Short answer type of question on Unit I A ---07 Marks

b) Morphological analysis of 08 words 08 marks

Q.2 a) Short answer type of question on Unit II (A+ B) --- 07 Marks

b) Phrase analysis 08 Marks

Q.3 a) Short answer type of question on Unit III (A+ B) 05 Marks

b) Simple sentence analysis 05 Marks

c) Identification of subordinate clauses and comment on their form and function 05 Marks

Q.4 a) Question on Direct/ indirect 05 Marks

b) Question on voice 05 Marks

c) Explaining ambiguity 05 Marks

Q.5 a) Short notes (02) on Unit V with internal choice 10 Marks

b) Form and Meaning 05 Marks

Course No. 6 : English Literature III (Victorian)

Rationale:

This course focuses on the nineteenth century Victorian era of the English literature. This era influenced the writers in the British colonies who were beginning to produce literature. The novel appears as a dominant genre. Poetry after the Romantic revival is also very significant. Philosophical writings of this period had an impact on the later writers like Eliot. The texts prescribed are the most significant literary representations of Victorian ethos.

Unit I : Background

- 1) The Age of the Novel, 2) Early Victorian Verse, 3) Early Victorian Nonfictional Prose,
- 4) The Oxford movement, 5) Late Victorian Fiction, 6) The Pre-Raphaelites,
- 7) Victorian Drama, 8) The Decadent movement

Unit II : Nonfictional Prose

- 1) *Unto This Last*: Ruskin , 2) *Culture and Anarchy*: Matthew Arnold

Unit III : Fiction

- 1) *Vanity Fair*: William Thackeray, 2) *Adam Bede*: George Eliot

Unit IV : Poetry

- 1) *Idylls of the King*: Alfred Lord Tennyson,
- 2) Selections from *Men and Women*(*Love Among the Ruins, A Woman's Last Word, Fra Lippo Lippi, Andrea Del Sarto, After, Memorabilia*) : Robert Browning

Unit V : Drama

- 1) *The Importance of Being Earnest*: Oscar Wilde
- 2) *Arms and the Man*: Bernard Shaw

Reference Books

- Felluga, Dino Franco, et al. *The Encyclopedia of Victorian Literature* 2015.
- Flint, Kate, ed. *The Cambridge History of Victorian Literature* 2014.
- Horsman, Alan. *The Victorian Novel* (Oxford History of English Literature, 1991)
- Hroncek, Susan. *Felluga, Dino Franco, et al. The Encyclopedia of Victorian Literature* 2015.
- Flint, Kate, ed. *The Cambridge History of Victorian Literature* 2014.
- Horsman, Alan. *The Victorian Novel* (Oxford History of English Literature, 1991)
- Hroncek, Susan. *Strange Compositions: Chemistry and its Occult History in Victorian Speculative Fiction* 2016.
- O'Gorman, Francis, ed. *The Cambridge companion to Victorian culture* 2010.
- Roberts, Adam Charles, ed. *Victorian culture and society: the essential glossary*.2016.
- O'Gorman, Francis, ed. *The Cambridge companion to Victorian culture* 2010.
- Roberts, Adam Charles, ed. *Victorian culture and society: the essential glossary* 2003.

Web Resources

- <http://www.victorianweb.org>
- <http://webapp1.dlib.indiana.edu>
- <https://bavs.ac.uk/>
- <http://www.victorians.co.uk/>
- <http://www.victorians.co.uk/>

Question Paper Pattern

- Question1. Short Notes with Internal Choice (any 3 out of 5) on unit I - 15 marks.
- Question2. Descriptive answer type question with internal choice on unit II - 15 marks.
- Question3. Descriptive answer type question with internal choice on unit III - 15 marks.
- Question4. Descriptive answer type question with internal choice on unit IV - 15 marks.
- Question5. Descriptive answer type question with internal choice on unit V - 15 marks.

Course No. 7 : English Literature IV(Modern and Postmodern)

Rationale:

This course attempts a brief survey of the modern and postmodern literary culture. Modernism developed in the early twentieth-century out of a general sense of disillusionment with Victorian attitudes of certainty, conservatism, and belief in the idea of objective truth. The movement was influenced by the ideas of Darwin, Mach, Bergson, Nietzsche, Marx and the psychoanalytic theories of Sigmund Freud. In turn, the postmodernism was partially a revolt against the high modernism. The postmodernism, continuing into the present times, has revolutionized many established ideas about literary production, theory, and the reader. This course prescribes close reading of some of the most prominent authors of the 20th century continuing upto the contemporary era.

Unit I : Background

- 1)The Edwardians,2) The Modernist Revolution, 3) The Bloomsbury Group,
- 4) The Movement, 5) The Angry Young Men,6)Kitchen Sink Drama,
- 7)Postcolonial Voices, 8) Feminist Novelists

Unit II : Nonfictional Prose

- 1) *Politics and the English Language* : George Orwell , 2) *A Room of One's Own*: Virginia Woolf

Unit III : Fiction

- 1) *Kim*: Rudyard Kipling, 2) *Lord of the Flies*: William Golding

Unit IV : Poetry

- 1) *Ash Wednesday*: T.S. Eliot ,
- 2) *The Mystery of the Charity of Charles Peguy*: Geoffrey Hill

Unit V : Drama

- 1) *The Caretaker*: Harold Pinter
- 2) *Top Girls*: Caryl Churchill

Reference books

Childs, Peter *Modernism*. Routledge, 2008.

Fowler, Alastair. *The History of English Literature*, Harvard University Press, Cambridge, MA, 1989

Hutcheon, Linda. *A Poetics of Postmodernism: History, Theory, Fiction*. NY: Routledge, 2004.

McHale, Brian . *Constructing Postmodernism*, London: Routledge, 1992.

Pound, Ezra, *Make it New*, Essays, London, 1935.

The Routledge Companion to Postmodernism NY: Routledge, 2002

Waugh Patricia. *Metafiction: the theory and practice of self-conscious fiction*. Routledge, 1984

Williams, Linda eds. *The Bloomsbury Guides to English Literature: The Twentieth Century*, London: Bloomsbury, 1992

Web Resources

<https://www.modernliterature.org/>

<https://www.bl.uk/20th-century-literature>

<http://www.essential-humanities.net/western-art/literature/modern/>

<https://sites.google.com/site/theenglishliterarycanon/>

<https://www.librarything.com/>

Question Paper Pattern

Question1. Short Notes with Internal Choice (any 3 out of 5) on unit I - 15 marks.

Question2. Descriptive answer type question with internal choice on unit II - 15 marks.

Question3. Descriptive answer type question with internal choice on unit III - 15 marks.

Question4. Descriptive answer type question with internal choice on unit IV - 15 marks.

Question5. Descriptive answer type question with internal choice on unit V - 15 marks.

Course No. 8 (Elective)
(A) American Literature

Rationale

A study of American literature is an indispensable part of the English Studies. The literature of the United States has a dominating presence in the literary world. The present course brings a selection from the canonical American literary tradition covering the time from the colonial period to the contemporary times. The texts presented for close reading will give an idea about the American cultural and social issues as well as the distinctiveness of the American ways of literary expressions. All the authors selected for this study are the prominent names in the American tradition. The course attempts to give an introduction to the American literary world through readings in these selected representative texts from prose, poetry, drama, and non-fiction.

Course Contents

Unit I: Nonfictional Prose

- 1) *Walden*: Henry David Thoreau
- 2) *Custer Died for Your Sins*: Vine Deloria Jr.

Unit II: Novel

- 1) *Adventures of Tom Sawyer*: Mark Twain
- 2) *The Pearl*: John Steinbeck

Unit III: Short Fiction

- 1) *Billy Budd*: Herman Melville
- 2) *The Luck of Roaring Camp, The Outcasts of Poker Flat*: Bret Harte

Unit IV: Poetry

- 1) *Song of Myself*: Walt Whitman
- 2) *Birches, The Road Not Taken, Mending Wall, Nothing Gold Can Stay*: Robert Frost

Unit V: Drama

- 1) *The Long Day's Journey into Night*: Eugene O'Neill
- 2) *Death of a Salesman*: Arthur Miller

Question Paper Pattern

- Question1. Descriptive answer type question with internal choice on unit I - 15 marks.
Question2. Descriptive answer type question with internal choice on unit II - 15 marks.
Question3. Descriptive answer type question with internal choice on unit III - 15 marks.
Question4. Descriptive answer type question with internal choice on unit IV - 15 marks.
Question5. Descriptive answer type question with internal choice on unit V - 15 marks.

Reference books

- Allen, Walter. *The Urgent West: The American Dream and Modern Man*. New York: E. P. Dutton, 1969.
- Benne, Robert, and Philip Hefner. *Defining America: A Christian Critique of the American Dream*. Philadelphia: Fortress Press, 1974.
- Bercovitch, Sacvan. *The Cambridge History of American Literature*. Cambridge: Cambridge University Press, 2005.
- Boorstin, Daniel J. *The Image: Or, What Happened to the American Dream*. New York: Atheneum, 1962.
- Buell, Lawrence. *Dream of the Great American Novel*. Cambridge, Massachusetts and London: The Belknap Press of Harvard University Press, 2014.
- Chisholm, Hugh, ed. "American Literature". *Encyclopædia Britannica (11th ed.)*. Cambridge University Press, 1911.
- Carpenter, Frederick I. *American Literature and the Dream*. New York: Philosophical Library, 1955.
- Ericson, Edward L. *The American Dream Renewed: The Making of a World People*. New York: Continuum, 1991.
- Gray, Richard. *A History of American Literature*. Malden: Wiley-Blackwell. 2011
- Long, Elizabeth. *The American Dream and the Popular Novel*. London: Routledge & Kegan Paul, 1985. A helpful overview of the success theme in best-selling novels.
- Madden, David, ed. *American Dreams, American Nightmares*. Carbondale: Southern Illinois University Press, 1970.
- Moore, Michelle E. *Chicago and the Making of American Modernism: Cather, Hemingway, Faulkner, and Fitzgerald in Conflict*. New York and London: Bloomsbury Academic, 2019.
- Müller, Timo (2017). *Handbook of the American Novel of the Twentieth and Twenty-First Centuries*. Boston: de Gruyter, 2017.

Web Resources

- <https://americanliterature.com/>
- <https://digitalcommons.unl.edu/etas/>
- <https://www.thoughtco.com/american-literary-periods-741872>

(B) Non-western Classics

Rationale

Most of the scholars in the English literature are usually familiar with the Western canon and the study of its classics, the purpose of this course is to introduce some of the works recognized as classics from the non-western regions. The syllabus includes texts from all major non-western literary traditions. Ancient civilizations of diverse regions have numerous literary texts in various genres developed for the past few millenniums. The acquaintance with select classics will be an enriching experience and will help the learners develop a wider perspective of the concept of literature.

Course Contents

Unit I

- 1) *Heike Monogatari* (Japan)
- 2) *The Romance of the Three Kingdoms* : Luo Guanzhong (China)

Unit II

- 1) *Epic of Ibonia* (Madagaskar)
- 2) *Epic of Sundiata* (Mali)

Unit III

- 1) *Epic of Gilgamesh* (Sumeria)
- 2) *The Book of the Dead* –The papyrus of Ani (Egypt)

Unit IV

- 1) *The Masnavi-e- Manavi*, Book 1 : Rumi (Persia)
- 2) *The Tale of Kieu*: Ngugen Du (Vietnam)

Unit V

- 1) *Abhijnana Shakuntalam*: Kalidasa (India)
- 2) *Buddhacharita*: Asvaghosa (India)

Question Paper Pattern

- Question1. Descriptive answer type question with internal choice on unit I - 15 marks.
Question2. Descriptive answer type question with internal choice on unit II - 15 marks.
Question3. Descriptive answer type question with internal choice on unit III - 15 marks.
Question4. Descriptive answer type question with internal choice on unit IV - 15 marks.
Question5. Descriptive answer type question with internal choice on unit V - 15 marks.

Reference books

- Allen, Roger. *An Introduction to Arabic Literature*. Cambridge: Cambridge University Press, 2000
- Austen, Ralph A., ed. *In Search of Sunjata: The Mande Oral Epic as History, Literature, and Performance*, Bloomington: Indiana University Press, 1999
- Bary, William Theodore de, and Irene Bloom, eds. *Approaches to the Asian Classics*. New York: Columbia University Press, 1990.
- Basham, A. L. *The Wonder That Was India: A Survey of the History and Culture of the Indian Sub-Continent before the Coming of the Muslims*. London: Sidgwick and Jackson, 1985.
- Burkert, Walter. *The Orientalizing Revolution: The Near Eastern Influence in the Early Archaic Age.*, Trans. Margaret E. Pindar and Walter Burkert. Cambridge: Harvard University Press, 1992.
- Carroll, Michael Thomas, ed. *No Small World: Visions and Revisions of World Literature*. Urbana, IL: National Council of Teachers of English, 1996.
- Cohen, Jeffrey Jerome, ed. *Monster Theory: Reading Culture*. Minneapolis: University of Minnesota Press, 1997.
- Connah, Graham. *African Civilizations: An Archaeological Perspective*. Cambridge: Cambridge University Press, 2001
- Damrosch, David. *The buried Book: The Loss and Rediscovery of the Great Epic of Gilgamesh*. New York: Henry Holt, 2006.
- Dorson, Richard M., ed. *African Folklore*. New York: Anchor Books, 1972.
- Frederic, Louis. *Buddhism: Flammarion Iconographic Guides*. Trans. Nissim Marshall. Paris: Flammarion, 1995.
- Hume, Nancy G., ed. *Japanese Aesthetics and Culture: A Reader*. Albany: State University of New York Press, 1995.
- Kramer, Samuel Noah, ed. *Mythologies of the Ancient World*. Garden City: Anchor Books, 1961.
- Le Huy Hap. *Vietnamese Legends*. Rev. ed. Saigon :Khai Tri, 1976.
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- <https://www.librarything.com/>
- <http://sacred-texts.com/woe/index.htm>
- <http://www.per-ankh.co.uk/index.asp>
- <http://www.sanskritebooks.org/2015/12/bibliotheca-indica-series/>
- <https://ctext.org/>

Board of Studies in English

Books to be prescribed and published as texts for new syllabus with effect from 2019-20

2) Postgraduate level: M. A. English-Semesters I and II

Sr. No.	Course/ Paper No.	Title	Publisher	Format
1	1	A Course Book in Phonetics and English Phonology	Swami Ramanand Teerth Marathwada University	E-Book
2	2	A Compendium of English Literature(From Old English period through the English Renaissance)	Swami Ramanand Teerth Marathwada University	E-Book
3	3	A Compendium of English Literature(Neoclassical and Romantic Periods)	Swami Ramanand Teerth Marathwada University	E-Book
4	4A	An Anthology of Indian Writing in English	Swami Ramanand Teerth Marathwada University	E-Book
5	4B	Texts in Western Classical Literature	Swami Ramanand Teerth Marathwada University	E-Book
6	5	A Course Book in Modern English Structure	Swami Ramanand Teerth Marathwada University	E-Book
7	6	A Compendium of English Literature(Victorian Period)	Swami Ramanand Teerth Marathwada University	E-Book
8	7	A Compendium of English Literature(Modern and Postmodern Periods)	Swami Ramanand Teerth Marathwada University	E-Book
9	8A	An Anthology of American Literature	Swami Ramanand Teerth Marathwada University	E-Book
10	8B	Selected Non-Western Classic Texts	Swami Ramanand Teerth Marathwada University	E-Book

॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)

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संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदव्युत्तर स्तरावरील प्रथम वर्षाचे CBCS Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ३० एप्रिल २०१९ रोजी संपन्न झालेल्या ४३व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.५/४३-२०१९ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदव्युत्तर स्तरावरील प्रथम वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्यात येत आहेत.

- १) एम.ए.—प्रथम वर्ष—इंग्रजी
- २) एम.ए.—प्रथम वर्ष—हिंदी
- ३) एम.ए.—प्रथम वर्ष—मराठी
- ४) एम.ए.—प्रथम वर्ष—संस्कृत
- ५) एम.ए.—प्रथम वर्ष—उर्दू
- ६) एम.ए.—प्रथम वर्ष—अर्थशास्त्र
- ७) एम.ए.—प्रथम वर्ष—भूगोल
- ८) एम.ए.—प्रथम वर्ष—इतिहास
- ९) एम.ए.—प्रथम वर्ष—तत्त्वज्ञान
- १०) एम.ए.—प्रथम वर्ष—राज्यशास्त्र
- ११) एम.ए.—प्रथम वर्ष—मानसशास्त्र
- १२) एम.ए.—प्रथम वर्ष—लोकप्रशासन
- १३) एम.ए.—प्रथम वर्ष—समाजशास्त्र

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,
विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक-०१/परिपत्रक/पदव्युत्तर-सीबीसीएस अभ्यासक्रम/
२०१९-२०/६७

दिनांक : १७.०६.२०१९.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

स्वाक्षरित/—

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग



स्वामी रामानंद तीर्थ मराठवाडा विश्वविद्यालय, नांदेड
'ज्ञानतीर्थ' विष्णुपुरी, नांदेड

एम.ए. प्रथम वर्ष हिन्दी पाठ्यक्रम

स्नातकोत्तर स्तर

जून २०१९ से प्रारंभ

स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

एम.ए. (हिंदी) प्रथम वर्ष - पाठ्यक्रम की रूपरेखा

- १) अनिवार्य बीजपत्र
 - १) प्राचीन एवं मध्यकालीन काव्य- भाग १ : प्रथम सत्र
 - २) प्राचीन एवं मध्यकालीन काव्य- भाग २ : द्वितीय सत्र

- २) अनिवार्य बीजपत्र
 - १) भाषा विज्ञान एवं हिंदी भाषा - भाग १ : प्रथम सत्र
 - २) भाषा विज्ञान एवं हिंदी भाषा - भाग २ : द्वितीय सत्र

- ३) अनिवार्य बीजपत्र
 - १) हिंदी साहित्य का इतिहास- भाग-१ : प्रथम सत्र
 - २) हिंदी साहित्य का इतिहास - भाग २ : द्वितीय सत्र

- ४) अनिवार्य बीजपत्र
 - १) नाट्य साहित्य - भाग १ : प्रथम सत्र
 - २) नाट्य साहित्य - भाग २ : द्वितीय सत्र

एम. ए. (हिंदी) अनिवार्य बीजपत्र-१
प्राचीन एवं मध्यकालीन काव्य - भाग-१ प्रथम सत्र

पाठ्य विषय :

- अ) विद्यापती पदावली : संपादक- डॉ. नरेंद्र झा पद संख्या १ से २५
ब) कबीर ग्रंथावली : संपादक- श्यामसुंदरदास- नागरी प्रचारिणी सभा, वाराणसी

● गुरूदेव कौ अंग क्र.	१० से २० तक	१०
● सुमिरण कौ अंग क्र.	१० से ३० तक	२०
● विरह कौ अंग क्र.	२१ से ४० तक	२०
● परचा कौ अंग क्र.	२१ से ३० तक	१०
● मन कौ अंग क्र.	१ से १० तक	१०
● माया कौ अंग क्र.	११ से २० तक	१०
● करणी बिना कथनी कौ अंग क्र.	१ से ५ तक	०५
● कथनी बिना करणी कौ अंग क्र.	१ से ४ तक	०४
● संगती कौ अंग क्र.	१ से ६ तक	०६
● पद क्र. २, ८, १३, १६, ३४	५	०५

		१००

- क) जायसी - जायसी ग्रंथावली- संपादक रामचंद्र शुक्ल १) नागमति वियोग खण्ड
२) मानसरोदक खण्ड

द्रुत पाठ :

द्रुत पाठ हेतु निम्नलिखित कवि चुने गए हैं।

- १) चंदबरदाई
- २) अमीर खुसरो
- ३) रैदास
- ४) मीराबाई
- ५) जगनिक

इन कवियों के संबंध में निम्नलिखित जानकारी अपेक्षित है।

- अ) कवि का जीवन परिचय
- ब) कवि की रचनाओं का परिचय
- क) इनके साहित्य की सामान्य विशेषताएँ
- ड) काल विशेष में कवि का स्थान

एम.ए.(हिंदी) अनिवार्य बीजपत्र - १
प्राचीन एवं मध्यकालीन काव्य-भाग-१ प्रथम सत्र
प्रश्नपत्र का प्रारूप

अंक : ७५

प्रश्न १ ससंदर्भ व्याख्या :

- | | |
|---|----|
| अ) कबीर-विद्यापति-जायसी पर विकल्प के साथ संदर्भ | १० |
| ब) कबीर-विद्यापति-जायसी पर विकल्प के साथ संदर्भ | १० |

प्रश्न २ पाठ्य विषय में निर्धारित कवियों पर विकल्प के साथ प्रश्न २०

प्रश्न ३ टिप्पणी :

- | | |
|---|----|
| अ) पाठ्य विषय के कवियोंपर विकल्प के साथ टिप्पणी | १० |
| ब) पाठ्य विषय के कवियोंपर विकल्प के साथ टिप्पणी | १० |

प्रश्न ४ द्रुत पाठ हेतु निर्धारित कवियोंपर चार लघुत्तरी प्रश्न पूछे जाएँगे दो के उत्तर लिखने ०५
होंगे।

- | | |
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| प्रश्न ५ अ) द्रुत पाठसे एक पूर्ण वाक्य में उत्तर के लिए पाँच प्रश्न पूछे जाएँगे। | ०५ |
| ब) द्रुत पाठसे रिक्त स्थानों की पूर्ति के लिए पाँच वाक्य होंगे। | ०५ |

एम. ए. (हिंदी) अनिवार्य बीजपत्र-२

प्राचीन एवं मध्यकालीन काव्य - भाग-२

पाठ्य विषय :

- १) तुलसीदास (उत्तरकाण्ड) रामचरितमानस - गीता प्रेस गोरखपुर
- २) सूरदास - भ्रमरगीत सार संपादक रामचंद्र शुक्ल- पद संख्या २१ से ७०
- ३) बिहारी - बिहारी रत्नाकर संपादक जगन्नाथ रत्नाकर दोहा संख्या १ से ५०

द्रुत पाठ :

द्रुत पाठ हेतु निम्नलिखित कवि चुने गए हैं।

- १) रहीम
- २) भूषण
- ३) घनानंद
- ४) गुरू गोविंदसिंह
- ५) रसखान

इन कवियों के संबंध में निम्नलिखित जानकारी अपेक्षित है।

- अ) कवि का जीवन परिचय
- ब) कवि की रचनाओं का परिचय
- क) इन के साहित्य की सामान्य विशेषताएँ
- ड) काल विशेष में कवि का स्थान

एम.ए.(हिंदी) अनिवार्य बीजपत्र - १
प्राचीन एवं मध्यकालीन काव्य-भाग-२ द्वितीय सत्र
प्रश्नपत्र का प्रारूप

अंक : ७५

प्रश्न १ ससंदर्भ व्याख्या :

- | | |
|--|----|
| अ) तुलसी-बिहारी-सूरदास पर विकल्प के साथ संदर्भ | १० |
| ब) तुलसी-बिहारी-सूरदास पर विकल्प के साथ संदर्भ | १० |

प्रश्न २ पाठ्य विषय में निर्धारित कवियों पर विकल्प के साथ प्रश्न २०

प्रश्न ३ टिप्पणी :

- | | |
|---|----|
| अ) पाठ्य विषय के कवियोंपर विकल्प के साथ टिप्पणी | १० |
| ब) पाठ्य विषय के कवियोंपर विकल्प के साथ टिप्पणी | १० |

प्रश्न ४ द्रुत पाठ हेतु निर्धारित कवियोंपर चार लघुत्तरी प्रश्न पूछे जाएंगे दो के उत्तर लिखने ०५
होंगे।

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|--|----|
| प्रश्न ५ अ) द्रुत पाठसे एक पूर्ण वाक्य में उत्तर के लिए पाँच प्रश्न पूछे जाएंगे। | ०५ |
| ब) द्रुत पाठसे रिक्त स्थानों की पूर्ति के लिए पाँच वाक्य होंगे। | ०५ |

एम.ए.(हिंदी) अनिवार्य बीजपत्र - १
प्राचीन एवं मध्यकालीन काव्य-भाग-१ एवं भाग-२
प्रथम सत्र एवं द्वितीय सत्र

संदर्भ ग्रंथ सूची :

१. कबीर-डॉ.विजयेंद्र स्नातक, राजकमल प्रकाशन : दिल्ली
२. कबीर-हजारी प्रसाद द्विवेदी राजकमल प्रकाशन : दिल्ली
३. संत साहित्य के प्रेरणा स्रोत : आ.परशुराम चतुर्वेद, राजकमल प्रकाशन : दिल्ली
४. कबीर-व्यक्तित्व, कृतित्व एवं सिध्दांत : डॉ.सरनामसिंह शर्मा, राजकमल प्रकाशन : दिल्ली
५. कबीर मीमांसा-डॉ.रामचंद्र तिवारी-भारती भंडार, दिल्ली
६. हिंदी के मराठी संतो की देन : डॉ.विनय मोहन शर्मा- राजकमल प्रकाशन: दिल्ली
७. उत्तरी भारत की संत परंपरा : आ.परशुराम चतुर्वेदी- राजकमल प्रकाशन : दिल्ली
८. वीर काव्य-पं.उदयनारायण तिवारी, भारती भंडार लीडर प्रेस, इलाहाबाद
९. तुलसी का मानस : डॉ.मुशीराम शर्मा, भारतीय ज्ञानपीठ, दिल्ली
१०. तुलसी की साधना : डॉ.प्रेमशंकर, नॅशनल पब्लिशिंग हाऊस दिल्ली.
११. रामकाव्य और तुलसी : डॉ.प्रेमशंकर, नॅशनल पब्लिशिंग हाऊस दिल्ली
१२. गोस्वामी तुलसीदास : आचार्य रामचंद्र शुक्ल, नागरी प्रचारिणी सभा, वाराणसी
१३. बिहारी का नया मूल्यांकन : डॉ.बच्चनसिंह, रामचंद्र अॅण्ड कंपनी, दिल्ली
१४. बिहारी की काव्य कला : डॉ. उदयभानुसिंह, रामचंद्र अॅण्ड कंपनी, दिल्ली
१५. बिहारी का काव्य : हरिमोहन मालवीय, रामचंद्र अॅण्ड कंपनी, दिल्ली
१६. बिहारी : विश्वनाथप्रसादसिंह, रामचंद्र अॅण्ड कंपनी, दिल्ली
१७. संत नामदेव और हिंदी पद साहित्य : डॉ.रामचंद्र मिश्र, शैलेंद्र साहित्य सदन फर्रूखाबाद,उ.प्र.
१८. मीराबाई की पदावली : परशुराम चतुर्वेदी, प्रकाशक हिंदी साहित्य संमेलन, प्रयाग
१९. हिंदी साहित्य का अतीत : पं.विश्वनाथप्रसाद मिश्र, भाग १-२, लोकभारती प्रकाशन, इलाहाबाद.
२०. जायसी : एक अध्ययन-राजेंद्र मोहन भटनागर-भारतीय ग्रंथ निकेतन नई दिल्ली-२
२१. पद्मावत का लोक तात्विक अध्ययन : नृपेंद्र प्रसाद शर्मा-भारतीय ग्रंथ निकेतन नयी दिल्ली-२
२२. गुरू गोविंद सिंह और उनकी हिंदी कविता-महिपसिंह-भारतीय ग्रंथ निकेतन नयी दिल्ली-२
२३. कबीर और जायसी-एक मूल्यांकन-रामगोपाल शर्मा-भारतीय ग्रंथ निकेतन नयी दिल्ली-२
२४. मध्यकालीन कवि और कविता : डॉ.रतनकुमार पांडेय

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पाठ्य विषय :

क) भाषा और भाषा विज्ञान

१) भाषा : परिभाषा, अभिलक्षण, भाषा व्यवस्था और भाषा व्यवहार

भाषा संरचना और भाषिक प्रकार्य

भाषाविज्ञान : स्वरूप, अध्ययन की दिशाएँ-वर्णनात्मक, ऐतिहासिक एवं तुलनात्मक

२) स्वन विज्ञान

स्वन विज्ञान का स्वरूप वाग् अवयव और उनके कार्य, स्वन की अवधारणा, स्वनों का वर्गीकरण, स्वन गुण, स्वनिक परिवर्तन, स्वनिम विज्ञान का स्वरूप, स्वनिम की अवधारणा, स्वनिम के भेद

ख) हिंदी भाषा :

१) हिंदी की ऐतिहासिक पृष्ठभूमि

प्राचीन भारतीय आर्य भाषाएँ : (वैदिक तथा लौकिक संस्कृत) और उनकी विशेषताएँ।
मध्यकालीन भारतीय आर्य भाषाएँ-पालि, प्राकृत और अपभ्रंश और उनकी विशेषताएँ।
आधुनिक भारतीय आर्य भाषाएँ और उनका वर्गीकरण पूर्वी, पश्चिमी, पहाडी, बिहारी, राजस्थानी।

२) हिंदी का भाषिक स्वरूप

हिंदी की स्वनिम व्यवस्था-खंड्य, खंड्येत्तर स्वनिम

३) हिंदी की रूपरचना, उपसर्ग, प्रत्यय, समास, कारक

४) देवनागरी लिपी : विशेषताएँ एवं मानकीकरण।

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प्रश्नपत्र का प्रारूप

अंक : ७५

प्रश्न १ भाषा और भाषाविज्ञान पर विकल्प के साथ प्रश्न	२०
प्रश्न २ हिंदी भाषा पर विकल्प के साथ प्रश्न	२०
प्रश्न ३ टिप्पणीयाँ :	
अ) स्वन विज्ञान पर विकल्प के साथ टिप्पणी	१०
ब) देवनागरी लिपि विकल्प के साथ टिप्पणी	१०
प्रश्न ४ भाषा विज्ञान एवं हिंदी भाषा से चार लघुतरी प्रश्न दिए जायेंगे : दो के उत्तर लिखने होंगे।	०५
प्रश्न ५ अ) संपूर्ण पाठ्यविषय से वाक्य में उत्तर के लिए पाँच प्रश्न होंगे।	०५
ब) रिक्त स्थानों की पूर्ति के लिए पूर्ण पाठ्य विषय से पाँच वाक्य होंगे।	०५

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पाठ्य विषय :

क) भाषा विज्ञान

- १) रूपविज्ञान : रूपप्रक्रिया का स्वरूप रूपिम विज्ञान का स्वरूप, रूपिम की अवधारणा
रूपिम के भेद : मुक्त-आबद्ध, अर्थदर्शी और संबंधदर्शी
- २) वाक्य की अवधारणा, वाक्य के अंग, वाक्य के भेद अभिहितान्यवाद, अन्विताभिधानवाद,
वाक्य विश्लेषण, आंतरिक संरचना और बाह्य संरचना
- ३) अर्थ विज्ञान
अर्थ की अवधारणा, शब्द और अर्थ का संबंध, अर्थ परिवर्तन की दिशाएँ एवं कारण, पर्यायता,
अनेकार्थता, विलोमता

ख) हिंदी भाषा

- १) हिंदी का भौगोलिक विस्तार
हिंदी की उपभाषाएँ - पश्चिमी, पूर्वी, राजस्थानी, बिहारी और पहाड़ी हिंदी तथा उनकी बोलियाँ
- २) हिंदी के विविध रूप :
संपर्क भाषा, राष्ट्र भाषा, राजभाषा के रूप में हिंदी संचार भाषा, हिंदी की संवैधानिक स्थिति
- ३) हिंदी में कम्प्यूटर सुविधाएँ :
 - अ) मशिनी अनुवाद
 - ब) आँकडा संसाधन
 - क) मेल आयडी का पंजीकरण (विधि)
ई-मेल करना (विधि)
 - ड) विषय की जानकारी ढूँढना (सर्च करना)

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प्रश्नपत्र का प्रारूप

अंक : ७५

प्रश्न १ व्याकरण और अर्थ विज्ञान पर विकल्प के साथ प्रश्न	२०
प्रश्न २ हिंदी भाषा पर विकल्प के साथ प्रश्न	२०
प्रश्न ३ टिप्पणीयाँ :	
अ) भाषा विज्ञान पर विकल्प के साथ टिप्पणी	१०
ब) हिंदी में कम्प्युटर सुविधाओं पर विकल्प के साथ टिप्पणी	१०
प्रश्न ४ भाषा विज्ञान एवं हिंदी भाषा से चार लघुत्तरी प्रश्न दिए जायेंगे : दो के उत्तर लिखने होंगे।	०५
प्रश्न ५ अ) संपूर्ण पाठ्यविषय से एक वाक्य में उत्तर के लिए पाँच प्रश्न होंगे।	०५
ब) रिक्त स्थानों की पूर्ति के लिए पूर्ण पाठ्य विषय से पाँच वाक्य होंगे।	०५

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प्रथम सत्र एवं द्वितीय सत्र

संदर्भ ग्रंथ सूची :

१. भाषा विज्ञान-भोलानाथ तिवारी, किताब महल, इलाहाबाद
२. हिंदी भाषा- भोलानाथ तिवारी, किताब महल, इलाहाबाद
३. भाषा विज्ञान- सिध्दांत और स्वरूप- जितराम पाठक, अनुपम प्रकाशन, पटना
४. हिंदी उद्भव, विकास और रूप- हरदेव बहारी, किताब महल, इलाहाबाद
५. भाषा विज्ञान एवं भाषा शास्त्र- कपिलदेव द्विवेदी, विश्वविद्यालय प्रकाशन, वाराणसी
६. भाषा विज्ञान की देवेंद्र नाथ शर्मा, राधाकृष्ण प्रकाशन दिल्ली
७. हिंदी भाषा का इतिहास- डॉ. विरेन्द्र वर्मा, हिंदुस्थानी अकॅडमी, इलाहाबाद
८. भाषा विवेचन-भगीरथ मिश्र, साहित्य भवन, इलाहाबाद
९. हिंदी भाषा की संरचना- भोलानाथ तिवारी, किताब महल, इलाहाबाद
१०. हिंदी की ध्वनियाँ और उनका उच्चारण-भोलानाथ तिवारी, किताब महल, इलाहाबाद
११. भाषा विज्ञान- डॉ.अंबादास देशमुख, आरती प्रकाशन औरंगाबाद
१२. भाषा विज्ञान और हिंदी भाषा- सुधाकर नलावडे, साहित्य रत्नालय, कानपूर
१३. भाषा और भाषिकी- देवीशंकर द्विवेदी, राधाकृष्ण प्रकाशन, दिल्ली
१४. आधुनिक भाषा विज्ञान- डॉ.हनुमंत पाटील, प्रेम प्रकाशन, दिल्ली
१५. हिंदी भाषा प्रकृति- डॉ.बलभीमराज मोरे, गोमदेश प्रकाशन, परभणी
१६. आधुनिक भाषा का संक्षिप्त इतिहास- भोलानाथ तिवारी, किताब महल, इलाहाबाद
१७. व्यावहारिक हिंदी भाषा और व्याकरण-डॉ.उमेशचंद्र मिश्र, साहित्य रत्नालय, कानपूर
१८. हिंदी भाषा स्वरूप और विकास- कैलासचंद्र भाटिया, प्रभात प्रकाशन, दिल्ली
१९. हिंदी भाषा उद्भव और विकास-उरदयानारायण तिवारी
२०. भाषा और समाज- राम विलास शर्मा
२१. हिंदी भाषा संरचना के विविध आयाम- रविंद्रनाथ श्रीवास्तव
२२. सरल भाषा विज्ञान-मनमोहन गौतम

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पाठ्य विषय :

१. इतिहास दृष्टि एवं साहित्येतिहास
२. हिंदी साहित्य का इतिहास : काल विभाजन एवं नामकरण
३. हिंदी साहित्य का इतिहास : लेखन की परंपरा एवं पुनर्लेखन की समस्याएँ

४. आदिकाल की पृष्ठभूमी
 - i) सिद्ध साहित्य
 - ii) नाथ साहित्य
 - iii) रासो साहित्य
 - iv) जैन साहित्य

५. भक्तिकाल की पृष्ठभूमि एवं भक्ति आंदोलन
 - i) अलवार संत
 - ii) संत काव्यधारा : परंपरा तथा प्रवृत्तियाँ
 - iii) सूफ़ी काव्यधारा का विकास तथा प्रवृत्तिगत विशेषताएँ
 - iv) रामभक्ति तथा कृष्णभक्ति काव्यधारा की परंपरा एवं प्रमुख प्रवृत्तियाँ

६. रीतिकाल की पृष्ठभूमि तथा रीतिधाराओं का प्रवृत्तिगत अध्ययन (रीतिसिद्ध, रीतिबद्ध, रीतिमुक्त)

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अंक : ७५

प्रश्न १ पाठ्यविषय १ से ४ पर विकल्प के साथ दीर्घोत्तरी प्रश्न	२०
प्रश्न २ पाठ्यविषय ५ (भक्तिकाल) पर विकल्प के साथ दीर्घोत्तरी प्रश्न	२०
प्रश्न ३ पाठ्यविषय ६ (रीतिकाल) पर विकल्प के साथ दीर्घोत्तरी प्रश्न	२०
प्रश्न ४ संपूर्ण पाठ्यक्रम पर ४ टिप्पणियाँ पूछी जाएगी २ के उत्तर देने होंगे	०५
प्रश्न ५ अ) एक पूर्ण वाक्य में उत्तर के लिए संपूर्ण पाठ्यक्रम से पाँच प्रश्न दिए जाएँगे।	०५
ब) रिक्त स्थानों की पूर्ति के लिए संपूर्ण पाठ्यक्रम पाँच वाक्य होंगे।	०५

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पाठ्य विषय :

१. आधुनिक काल - आधुनिक काल की सामाजिक, राजनैतिक, आर्थिक एवं सांस्कृतिक पृष्ठभूमि
भारतेंदु युग, द्विवेदी युग, छायावाद, प्रगतिवाद
प्रयोगवाद, नई कविता, समकालिन कविता,
परिस्थितियाँ तथा प्रवृत्तियाँ
२. राष्ट्रीय तथा सांस्कृतिक चेतना की काव्य धारा का सामान्य परिचय
३. आधुनिक प्रमुख गद्यविधाओं का विकास :
निबंध उद्भव और विकास
उपन्यास उद्भव और विकास
कहानी उद्भव और विकास
४. दलित साहित्य का उद्भव और विकास आत्मकथा के संदर्भ में

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अंक : ७५

प्रश्न १ पाठ्यविषय १ पर विकल्प के साथ दीर्घोत्तरी प्रश्न	२०
प्रश्न २ पाठ्यविषय २ पर विकल्प के साथ दीर्घोत्तरी प्रश्न	२०
प्रश्न ३ पाठ्यविषय ३ पर विकल्प के साथ दीर्घोत्तरी प्रश्न	२०
प्रश्न ४ टिप्पणियाँ- पाठ्यविषय १ से ४ टिप्पणियाँ पूछी जाएगी २ के उत्तर देने होंगे	०५
प्रश्न ५ अ) एक पूर्ण वाक्य में उत्तर के लिए संपूर्ण पाठ्यक्रम में पाँच प्रश्न दिए जायेंगे।	०५
ब) रिक्त स्थानों की पूर्ति के लिए संपूर्ण पाठ्यक्रम पाँच वाक्य होंगे।	०५

एम.ए.(हिंदी) अनिवार्य बीजपत्र - ३
हिंदी साहित्य का इतिहास -भाग-१ एवं भाग-२
प्रथम सत्र एवं द्वितीय सत्र

संदर्भ ग्रंथ सूची :

१. हिंदी साहित्य का इतिहास - आचार्य रामचंद्र शुक्ल
२. हिंदी साहित्य का इतिहास - सं.डॉ.नगेंद्र
३. हिंदी साहित्य का इतिहास - युग और प्रवृत्तियाँ- शिवकुमार शर्मा
४. हिंदी साहित्य के इतिहास की समस्याएँ- डॉ.रामविलास शर्मा
५. हिंदी साहित्य का आदिकाल- आचार्य ह.प्रसाद द्विवेदी
६. हिंदी साहित्य का उद्भव और विकास - आचार्य ह. प्रसाद द्विवेदी
७. हिंदी साहित्य का आलोचनात्मक इतिहास- डॉ. रामकुमार वर्मा
८. हिंदी साहित्य का वैज्ञानिक इतिहास- डॉ.गणपतीचंद्र गुप्त
९. साहित्य और इतिहास दृष्टी-डॉ. मैनेजर पांडे
१०. हिंदी साहित्य का दूसरा इतिहास - बच्चनसिंह
११. आधुनिक हिंदी कविता का वैचारिक पक्ष- डॉ.रतनकुमार पांडे
१२. समकालीन कविता : दृष्टि और बोध - डॉ. रतनकुमार पांडे
१३. समकालीन कविता : प्रकृति और परिवेश- डॉ. रतनकुमार पांडे
१४. हिंदी साहित्य का अतीत - डॉ. विश्वनाथ प्रसाद मिश्र
१५. हिंदी साहित्य सही इतिहास - डॉ.चंद्रभानु सोनवणे, आलोक प्रकाशन, औरंगाबाद.
१६. आधुनिक हिंदी साहित्य का इतिहास - डॉ.सूर्यनारायण रणसुभे, विकास प्रकाशन, कानपूर
१७. हिंदी साहित्य का प्रवृत्तिगत इतिहास- डॉ. अमरप्रसाद जैस्वाल, कल्पना प्रकाशन, नांदेड.
१८. हिंदी साहित्य की युगीन प्रवृत्तियाँ - डॉ.नामदेव उतकर, चंद्रलोक प्रकाशन, कानपूर

एम. ए. (हिंदी) अनिवार्य बीजपत्र-४
नाट्य साहित्य - भाग-१ प्रथम सत्र

पाठ्य विषय :

- १) नाटक : अर्थ, स्वरूप और तत्व
- २) नाटक : चंद्रगुप्त- जयशंकर प्रसाद
- ३) नाटक : आषाढ का एक दिन - मोहन राकेश
- ४) नाटक : नैपथ्य राग - मीराकांत

द्रुत पाठ :

- १) भारतेन्दु हरिश्चंद्र
- २) लक्ष्मीनारायण मिश्र
- ३) विष्णू प्रभाकर
- ४) भीष्म साहनी
- ५) शंकर शेष

इन रचनाकारों के संबंध में निम्नलिखित जानकारी अपेक्षित है।

- अ) जीवन परिचय
- ब) रचनाओं का परिचय
- क) खोज की सामान्य विशेषताएँ
- ड) काल विशेष में रचनाकार का स्थान

एम.ए.(हिंदी) अनिवार्य बीजपत्र - ४
नाट्य साहित्य - भाग-१ प्रथम सत्र
प्रश्नपत्र का प्रारूप

अंक : ७५

प्रश्न १ ससंदर्भ व्याख्या

- | | | |
|----|--|----|
| अ) | पाठ्यक्रम में निर्धारित नाटक पर विकल्प के साथ संदर्भ | १० |
| ब) | पाठ्यक्रम में निर्धारित नाटक पर विकल्प के साथ संदर्भ | १० |

प्रश्न २ नाटक के तत्व तथा पाठ्यक्रम में निर्धारित नाटक पर विकल्प के साथ दीर्घोत्तरी प्रश्न २०

प्रश्न ३ नाटक के तत्व तथा पाठ्यक्रम में निर्धारित नाटक पर विकल्प के साथ दीर्घोत्तरी प्रश्न २०

प्रश्न ४ द्रुत पाठ हेतु निर्धारित रचनाकारों में से चार लघुत्तरी प्रश्न दिए जायेंगे। दो के उत्तर अनिवार्य होंगे।

०५

प्रश्न ५ अ) एक पूर्ण वाक्य में उत्तर के लिए द्रुत पाठ से पाँच प्रश्न दिए जायेंगे।

०५

ब) रिक्त स्थानों की पूर्ति के लिए द्रुत पाठसे पाँच वाक्य होंगे।

०५

एम. ए. (हिंदी) अनिवार्य बीजपत्र-८
नाट्य साहित्य - भाग-२ द्वितीय सत्र

पाठ्य विषय :

- १) नाटक : उद्भव और विकास
- २) नाटक : अंधेर नगरी - भारतेन्दु हरिश्चंद्र
- ३) नाटक : अंधायुग - धर्मवीर भारती
- ४) नाटक : आठवा सर्ग - सुरेन्द्र वर्मा

द्वुत पाठ :

- १) जगदीशचंद्र माथूर
- २) उपेंद्रनाथ अशक
- ३) विजय तेंडुलकर
- ४) सर्वेश्वरदयाल सक्सेना
- ५) गिरीश कर्नाड

इन रचनाकारों के संबंध में निम्नलिखित जानकारी अपेक्षित है।

- अ) जीवन परिचय
- ब) रचनाओं का परिचय
- क) साहित्य की सामान्य विशेषताएँ
- ड) काल विशेष में रचनाकार का स्थान

एम.ए.(हिंदी) अनिवार्य बीजपत्र - ६
नाट्य साहित्य - भाग-२ द्वितीय सत्र
प्रश्नपत्र का प्रारूप

अंक : ७५

प्रश्न १ ससंदर्भ व्याख्या

- | | | |
|----|--|----|
| अ) | पाठ्यक्रम में निर्धारित नाटक पर विकल्प के साथ संदर्भ | १० |
| ब) | पाठ्यक्रम में निर्धारित नाटक पर विकल्प के साथ संदर्भ | १० |

प्रश्न २ नाटक साहित्य का इतिहास तथा पाठ्यक्रम में निर्धारित नाटक पर विकल्प के साथ दीर्घोत्तरी
प्रश्न २०

प्रश्न ३ नाटक साहित्य का इतिहास तथा पाठ्यक्रम में निर्धारित नाटक पर विकल्प के साथ दीर्घोत्तरी
प्रश्न २०

प्रश्न ४ द्रुत पाठ हेतु निर्धारित रचनाकारों में से चार लघुत्तरी प्रश्न दिए जायेंगे। दो के उत्तर अनिवार्य
होंगे। ०५

- | | | |
|-------------|---|----|
| प्रश्न ५ अ) | एक पूर्ण वाक्य में उत्तर के लिए द्रुत पाठ से पाँच प्रश्न दिए जायेंगे। | ०५ |
| ब) | रिक्त स्थानों की पूर्ति के लिए द्रुत पाठसे पाँच वाक्य होंगे। | ०५ |

एम.ए.(हिंदी) अनिवार्य बीजपत्र - ४
नाट्य साहित्य - भाग-१ एवं भाग-२
प्रथम सत्र एवं द्वितीय सत्र

संदर्भ ग्रंथ सूची :

१. हिंदी नाटक सिद्धांत और विवेचन - गिरीश रस्तोगी, वाणी प्रकाशन दरियागंज, नई दिल्ली
२. हिंदी नाटक सिद्धांत और विवेचन - राजगोपालसिंह चव्हाण, आत्माराम अॅण्ड सन्स, नई दिल्ली
३. हिंदी नाटककार- जयनाथ नलिन, आत्माराम सन्स, दिल्ली
४. नाटककार मोहन राकेश- गिरीश रस्तोगी, वाणी प्रकाशन, नई दिल्ली-२
५. मोहन राकेश के नाटक- डॉ. शिवराज यादव
६. हिंदी नाटक - बच्चनसिंह
७. हिंदी नाटकों की शिल्पविधि- श्रीमती गिरीजासिंह
८. हिंदी नाटक उद्भव और विकास - दशरथ ओझा
९. मोहन राकेश के नाटकों में नारी - डॉ.येरेकार, विकास प्रकाशन, कानपुर

॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

“ज्ञानतीर्थ” परिसर, विष्णुपुरी, नांदेड - ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

“Dnyanteerth”, Vishnupuri, Nanded - 431606 Maharashtra State (INDIA)

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संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदव्युत्तर स्तरावरील प्रथम वर्षाचे CBCS Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्याबाबत.

प रि प त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक ३० एप्रिल २०१९ रोजी संपन्न झालेल्या ४३व्या मा. विद्या परिषद बैठकीतील ऐनवेळचा विषय क्र.५/४३-२०१९ च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील मानवविज्ञान विद्याशाखेतील पदव्युत्तर स्तरावरील प्रथम वर्षाचे खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०१९-२० पासून लागू करण्यात येत आहेत.

- १) एम.ए.—प्रथम वर्ष—इंग्रजी
- २) एम.ए.—प्रथम वर्ष—हिंदी
- ३) एम.ए.—प्रथम वर्ष—मराठी
- ४) एम.ए.—प्रथम वर्ष—संस्कृत
- ५) एम.ए.—प्रथम वर्ष—उर्दू
- ६) एम.ए.—प्रथम वर्ष—अर्थशास्त्र
- ७) एम.ए.—प्रथम वर्ष—भूगोल
- ८) एम.ए.—प्रथम वर्ष—इतिहास
- ९) एम.ए.—प्रथम वर्ष—तत्त्वज्ञान
- १०) एम.ए.—प्रथम वर्ष—राज्यशास्त्र
- ११) एम.ए.—प्रथम वर्ष—मानसशास्त्र
- १२) एम.ए.—प्रथम वर्ष—लोकप्रशासन
- १३) एम.ए.—प्रथम वर्ष—समाजशास्त्र

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,
विष्णुपुरी, नांदेड — ४३१ ६०६.

जा.क्र.: शैक्षणिक—०१/परिपत्रक/पदव्युत्तर—सीबीसीएस अभ्यासक्रम/
२०१९-२०/६७

दिनांक : १७.०६.२०१९.

प्रत माहिती व पुढील कार्यवाहीस्तव :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व मूल्यमापन मंडळ यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उपकुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सिस्टम एक्सपर्ट, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.

स्वाक्षरित/—

उपकुलसचिव

शैक्षणिक (१-अभ्यासमंडळ) विभाग



**Swami Ramanand Teerth
Marathwada University
Nanded**

SYLLABUS

History

M. A. First Year

Semester I and II

Semester Pattern

(Choice Based Credit System)

(With Effective From 2019-2020)

Swami Ramanand Teerth Marathwada University, Nanded

M.A. First Year (Semester I and II)

(Choice Based Credit System)

2019-2020

Seme-ster	Core Course	Paper No.	Name of Paper	Lecture /week	Total No. of Lectures	CA	ESE	Total Marks	Credits
I	CCHIS-I	I	Historiography	4	55	25	75	100	03
	CCHIS-II	II	India after Independence	4	55	25	75	100	03
	CCHIS-III	III	History of Modern Marathwada	4	55	25	75	100	03
	CCHIS-IV	IV	History of Indian Art and Architecture Or Archaeology	4	55	50	50	100	03
				4	55	25	75	100	03
Total				16	220			400	12
II		V	Historiography	4	55	25	75	100	03
		VI	India after Independence	4	55	25	75	100	03
		VII	History of Modern Marathwada	4	55	25	75	100	03
		VIII	History of Indian Art and Architecture Or Archaeology	4	55	50	50	100	03
				4	55	25	75	100	03
Total				16	220			400	12
Total I + II Sem				32	440			800	24

Note:- CA: Continuous Assessment.

ESE: End of Semester Examination

Swami Ramanand Teerth Marathwada University, Nanded

M.A. History -Semester - I

Semester Pattern

(Choice Based Credit System)

2019-2020

Paper No	Title of the Paper	Internal Marks	End Semester Exam	Total CA+ESE
I	Historiography	25	75	100
II	India after Independence	25	75	100
III	History of Modern Marathwada	25	75	100
IV	History of Indian Art and Architecture Or Archaeology	50	50	100
		25	75	100

M.A. History -Semester - II

Paper No.	Title of the Paper	Internal Marks	End Semester Exam	Total CA+ESE
V	Historiography	25	75	100
VI	India after Independence	25	75	100
VII	History of Modern Marathwada	25	75	100
VIII	History of Indian Art and Architecture Or Archaeology	50	50	100
		25	75	100

Swami Ramanand Teerth Marathwada University, Nanded

M.A. First Year, Semester I

Paper I, Historiography

Credits - 03

Periods - 55

Marks - 100

Internal Marks - Test-I-5, Test-II-5, Home Assignment-10, Seminar-05= 25 + Theory Exam -75 = Total Marks-100

Salient Features –

- 1.This paper has wide scope for study of Historiography.
- 2.This paper focus on importance of Historical sources.
- 3.This paper is connected with all related subjects.
4. This paper put light on relation of History with other Sciences.

Utility –

- 1.Students will understand Research Methodology in Social Sciences.
2. To contribute constructively towards the building of Indian Historiography.
3. In Research Methodology student will understand the roe of Historian.
4. To make preparation for historical research

Objectives –

- 1.To orient students about how history is studied written and understood.
2. To explain method and tools of data collection.
3. To understand the meaning of evolution of Historiography.
4. To study the various views of Historiography.
5. To introduce student to the basic of reseach.
6. Learn how to use sources in their presentation.
7. To study the types and writing histories.
8. To study the Indian Historiography.

Prerequisite –

- 1.Student should have basic knowledge of history

1. Meaning and Scope of History	12
a) Meaning and definition of History	
b) Nature and scope of History	
c) Types of History	
d) Evaluation of History as an Art and Science.	
2. Sources of History	14
a) Primary Sources	
b) Secondary Sources	
c) Importance of Sources	
d) Conservation of Sources	
e) Foreign Sources	
3. History and other Sciences	16
a) Auxillary Sciences – Chronology, Archaeology, Numismatics, Epigraphy, Iconography, Anthropology, Paleography, Architecture, Oceanography.	
b) Allied Sciences – Political Science, Sociology, Economics, Geography.	
4. Archives and Museums	13
a) Meaning and Nature of Archives and Museums	
b) Archives – Delhi, Mumbai, Pune.	
c) Museums – Ter, Aurangabad, Hyderabad.	

Swami Ramanand Teerth Marathwada University, Nanded

M.A. First Year, Semester II

Paper V, Historiography

Credits - 03

Periods - 55

Marks - 100

Internal Marks - Test-I-5, Test-II-5, Home Assignment-10, Seminar-05= 25 + Theory Exam -75 = Total Marks-100

1. Major Theories of History **15**

- a) Cyclical
- b) Historical Materialism
- c) Sociological
- d) Structural
- e) Ecological

2. Expanding Horizons of writing Histories **12**

- a) Local History
- b) Regional History
- c) Intellectual History
- d) Social History
- e) Environment History
- f) Cultural History

3. Research Methodology in History **16**

- a) Preliminary Operations
- b) Objective of Research
- c) Selection of Research Problem
- d) Types of Research

4. Various Schools in Historiography **12**

- a) Nationalist
- b) Imperialist
- c) New Marxist
- d) Post Modernist
- e) Feminist

f) Subaltern.

Books for reading :-

1. **Ranjit Guha - Sabaltern Studies**
 2. **S.P. Sen – Historians and Historiography in modern India, Institute of Historical studies.**
 3. **R.C. Majumdar – Historians and Historiography in Modern India.**
 4. **Dr.K.N. Chitnis – Research methodology in History.**
 5. **R.S. Agrawal – Importance, Guidance on Research methodology.**
 6. **H.C. Hakett – The Critical Method in Historical Research and writing.**
 7. **S. Gopal and R. Thapar – The problem of Historical writing in India.**
८. ग. भा. निरंतर – इतिहासातील अंतर प्रवाह
 ९. गायकवाड, देसाई, हनमने – इतिहास लेखनशास्त्र
 १०. सुहास राजदरेकर – इतिहास लेखनशास्त्र
 ११. डॉ. प्रभाकर देव – इतिहास एक शास्त्र
 १२. वि. द. घाटे – इतिहास शास्त्र आणि कला
 १३. वा. सी. बेद्रे – साधन चिकित्सा, लोकवाङ्मयग्रह

Swami Ramanand Teerth Marathwada University, Nanded
M.A. - First Year, Semester - I

Paper – II, India After Independence

Credits - 03

Periods - 55

Marks - 100

Internal Marks - Test-I-5, Test-II-5, Home Assignment-10, Seminar-05= 25 + Theory Exam -75 = Total Marks-100

Salient Features –

1. This paper has wide scope for study of India after Independence.
2. This paper focus on importance of National leaders and their contribution.
3. This paper is dealt with overall development of Independent India.
4. This paper put light on relation of India with other country.

Utility –

1. Students will understand Political development in India.
2. To contribute effectively towards the building of nation.
3. Student will understand the policy of various leaders.
4. To make preparation for competitive examination.

Objectives –

1. To explain the major events after the Independence of India.
2. To explain the achievements of leaders after independence.
3. To understand the developmental process of India.
4. To study the Agricultural and Educational drastic changes in India.

Prerequisite –

1. Student should know about the freedom movement of India.
2. Student must be known about the contemporary period.

1. Integration of Princely States **15**

Background – Integration of Princely States - Junagarh, Kashmir, Hyderabad, Role of Pandit Jawaharlal Nehru and Sardar Vallabhbhai Patel.

2. Formation of Indian Constitution **13**

Constitution Committee, Drafting Committee, Preamble, Salient features of Indian Constitution.

3. Pandit Jawaharlal Nehru **15**

a) Internal Policy - Linguistic formation of States, Planning Commission, Policy towards Agriculture and Industry.

b) Foreign Policy –Non Alignment Movement, Relation with China and Pakistan, India and U.N.O.

4. Lal Bahadur Shastri **12**

a) Internal Policy – Problem of food grain and measures, Jai Jawan Jai Kisan.

b) Foreign Policy - India and Pakistan War, Tashkand Pact,

Swami Ramanand Teerth Marathwada University, Nanded

M.A. - First Year Semester – II

Paper – VI, India After Independence

Credits - 03

Periods - 55

Marks - 100

Internal Marks - Test-I-5, Test-II-5, Home Assignment-10, Seminar-05= 25 + Theory Exam -75 = Total Marks-100

Lectures

1. Indira Gandhi -

16

Internal Policy - Indira Gandhi and Syndicates, Coal mines policy, Policy towards Princely state, Bank Nationalization Policy, Pokhran Nuclear Test, Emergency, 20 Points Programme,

Foreign Policy - Non Alignment Movement, Rise of Bangladesh, India- Pakistan, USSR , USA relations.

2. Janta Government -

12

Morarji Bhai Desai, Failure of Janta Government, Jayprakash Narayan and Sarvoday Programme.

3. Rajiv Gandhi and V. P. Sing -

13

Internal Policy - Longowal Pact, Mizo Pact, Assam Pact, Science and Technology, Education – Navoday, V. P. Sing - Mandal Aayog.

Foreign Policy – India – Pakistan, China and Shrilanka relations.

4. Agricultural and Educational Development-

14

Agricultural – Five years plan and Agriculture, Green Revolution(M.S. Swaminathan) , White Revolution(Vergheese Kurien),

Education – Radhakrishnan Commission, Mudliyar Commission, Kothari Commission, New Educational Policy 1986.

Books for Reading :-

१. आधुनिक भारत — डॉ. आचार्य धनंजय
२. आधुनिक भारताचा इतिहास — डॉ. सुमन वैद्य व डॉ. शांता कोठेकर
३. स्वतंत्र भारताचा इतिहास — कोलारकर श. गो.
४. स्वतंत्र भारताचा इतिहास — डॉ. आर. आर. पिंपळपल्ले, डॉ. रामभाऊ मुटकुळे
५. आधुनिक भारताचा इतिहास — डॉ. अनिल कठारे

Swami Ramanand Teerth Marathwada University, Nanded

M.A. First Year, Semester I

Paper III, History of Modern Marathwada

Credits - 03

Periods - 55

Marks - 100

Internal Marks - Test-I-5, Test-II-5, Home Assignment-10, Seminar-05= 25 + Theory Exam -75 = Total Marks-100

Salient Features –

- 1.This paper has wide scope for study of Modern Marathwada.
- 2.This paper focus on importance of Hyderabad freedom struggle leaders and their contribution.
- 3.This paper is dealt with overall development of Modern Marathwada.
4. This paper put light on formation of Modern Marathwada.

Utility –

1. Students will understand major evenets of Hyderabad freedom struggle.
2. Students will get knowledge about regional History.
3. Student will understand the policy of Nizams and its reactions.
4. To make preparation for competitive examination.

Objectives –

1. To explain the major events in Modern Marathwada.
2. To explain the achievements of leaders in Hyderabad freedom struggle.
3. To understand the developmental process of freedom struggle of Hyderabad.
4. To study the social and political condition in Hyderabad state.

Prerequisite –

- 1.Student should know about the geographical position of Marathwada.
- 2.Student must be known about the Modern Indian History.

1. Historical Background -

12

Region under the Nizam, The nature of Power, 19th Century Development, Socio-Religious conditions, Educational activities.

2. Socio-Political Awakening -

15

Aarya samaj and Marathwada, Hyderabad state Depressed classes(1938), Hyderabad state Scheduled caste federation(1942), Shaikshnik Parishad, Maharashtra Parishad, Hyderabad State Congress, Hyderabad state and Hindu Mahasabha.

3. Hyderabad state and Freedom Movement -

15

Civil disobedience Movement. Zenda Satyagraha, Vandemataram Movements(1938), Movement of 1942, Jungle Satyagraha.

4. Razakar Movement -

13

Ittehad-ul- Muslimin, Khaksars and Khudai-Khidmatgars, Razakars-Their Aims and Organizational activities.

Swami Ramanand Teerth Marathwada University, Nanded

M.A. First Year, Semester II

Paper VII, History of Modern Marathwada

Credits - 03

Periods - 55

Marks - 100

Internal Marks - Test-I-5, Test-II-5, Home Assignment-10, Seminar-05= 25 + Theory Exam -75 = Total Marks-100

1. Swami Ramanand Teerth-

16

Life and Achievements.

2. Integration of Hyderabad state -

12

Police action, Role of Pandit Jawaharlal Nehru and Sardar Vallabh bhai Patel.

3. Agriculture and Farmer in Marathwada -

13

Agricultural policy of Nizam, Kul act of 1950. Watandari, Khoti system, Ownership of Agriculture, Bhudan Yadna, Nidhi Mukti, Tantra Mukti.

4. Post Independence Marathwada -

14

Sanyukta Maharashtra Sabha, Nagpur pact, States Reformation, Unification of Marathwada, Formation of Marathwada.

Books for Reading :-

१. नरहर कुरुंदकर — हैदराबाद विमोच आणि विसर्जन
२. अनंत भालेराव — हैदराबाद मुक्ती संग्राम
८. काळे भगवान संपादित — मराठवाडा काल आणि आज
९. डॉ. अनिल कठारे — मराठवाड्याचा इतिहास
३. Swami Ramanand Teerth –Memories of Hyderabad Freedom Struggle.
४. B.S. Dhengle – Hyderabad Freedom Struggle.
५. R.L. Handa – History of Freedom Movement in Princely States.
६. V.P. Menon – A Study of Integration of Indian States.
७. Hyderabad State Congress – Hyderabad People in Revolt.
८. S.M. Pagadi - Freedom Struggle in Hyderabad : A Connected Account (2 Vols)

Swami Ramanand Teerth Marathwada University, Nanded
M.A. First Year, Semester I
Paper IV , History of Indian Art and Architecture

Credits - 03

Periods - 55

Marks - 100

Practical - Historical site or Museum Study Report - 40, Viva-voce - 10 + Theory Exam - = 50 Total Marks - 100

Sailent Features –

Art in India and art in the modern world mean two very different things. In India, it is the statement of a racial experience and serves the purposes of life. All Indian art has been produced by professional craftsman following traditions handed down in pupillary succession. Changes in quality reflect the verying, but not deliberately varied, changes in racial psychology, vitality and taste. In order to understand Indian society one should study the Art and Architecture of India.

Utility –

Upon complection of this course, student will be able to demonstrate an understanding of History of the discipline of Art History, its origins and its institutional development.

Objectives –

- 1.To enrich the historical understanding of the student with reference to creative art.
- 2.To unfold aesthetic prosperity of Indian art.
- 3.To give wide exposure to the Indian art through site visit and visual effects.

Pre requisite –

Student should have preliminary knowledge of Indian History.

1. Art and Craft **16**

- a) Meaning of Art and Craft
- b) Different Kinds of Arts – Fine Art, Commercial Art and Folk art.
- c) Different context of Art – Religious, Secular, Tribal and Folk.

2. Architecture and Sculpture - **12**

- a) Meaning of Architecture and sculpture
 - I . Understanding Architecture – Plan section, elevation.
 - II. Different types of Arches –Corbelled and four centered arches.
 - III. Different kinds of Domes and Vaults.
 - IV. Different kinds of Pillars and their capitals.
- b) Secular Architecture –Houses, Paces, Forts and water architecture.
- c) Religious Architecture – Caves, Temples, Stupas, Chaitya, Mosques and Tombs.

3. Pre and Proto Historic Art - **13**

- a) Chaleolithic Art and Western India.
- b) Harappan Art.
- c) Rock Shelter Paintings(Bhimbetka)

4. Early Art and Architecture - **14**

- a) Mauryan Period – Barbar and Sarnath
- b) Sunga, Satvahana Period – Pitalkhora, Ajanta(Cave No. IX,X), Bhaje and Bedsa.

Swami Ramanand Teerth Marathwada University, Nanded
M.A. First Year, Semester II
Paper VIII , History of Indian Art and Architecture

Credits - 03

Periods - 55

Marks – 100

Practical - Historical site or Museum Study Report - 40, Viva-voce - 10 + Theory Exam - = 50 Total Marks - 100

1. Various Temple Styles - 12

- a)Nagar
- b)Dravid
- c)Vesar

2.Classical Art and Architecture - 12

- a)Gupta, Vakataka Style – Tigva, Deogad, Ramtek.
- b)Early Chalukya Style – Aihole, Pattadaka and Badami.

3. Latter Classical Art and Architecture - 16

- a)Rashtrakut Art – Ellora, Elephanta and Ter.
- b) Latter Chalukya Art – Hottal , Dharmapuri and Pangaon.
- c) Pallav and Ganga Art – Mahabalipuram, Kanchipuram and Konark.
- d) Yadav Art – Dharasur, Anwa and Aundha.

4. Fort Architecture – 15

- a)Types of Forts
 - b)Architecture of Fort – Delhi, Daulatabad, Naladurga and Sindhudurga.
-

Books for Reading :-

1. B. Havell- Indian sculpture and Paintings.
2. M. K. Dhavalikar – Ajanta culture.
3. T. Bhattacharya – A Study of vastuvidya.
4. D.N. Shukla – Vastushastra.(2 vols)
5. A.K. Coomarswami – Introduction to Indian Art.
6. G. B. Deglurkar – Temple Architecture and Sculpture of Maharashtra.
7. J. N. Banerjea – The Development of Hindu Iconography.
8. Niharranjan Roy –Mauryan and post Mauryan Art.
9. James Fergusson – History of Indian and Eastern Architecture.(2 vols)
10. T. A. Gopinath Rao – Elements of Hindu Iconography.(2 vols)
११. अग्रवाल वासुदेव – भारतीय पुरातत्व सर्वेक्षण
१२. कुलकर्णी वि.य. – भारतीय कला उदगम आणि विकास
१३. पाटील माया – पुरातत्व एक पर्यालोचन.

OR

Swami Ramanand Teerth Marathwada University, Nanded

M.A. First Year, Semester I

Paper IV, Archaeology

Credits - 03

Periods - 55

Marks - 100

Internal Marks - Test-I-5, Test-II-5, Home Assignment-10, Seminar-05= 25 + Theory Exam -75 = Total Marks-100

Salient Features –

- 1.This paper has wide scope for study of Archaeology.
- 2.This paper focus on importance of Excavations in history.
- 3.This paper is dealt with Archaeological overall development of India.
4. This paper put light on Archaeology and public Education.

Utility –

1. Students will understand scope of Archaeology.
2. Students will get knowledge about Archaeological remains.
3. Student will understand the process of excavation.
4. To make preparation for Historical writings.

Objectives –

1. To explain the meaning of Archaeology.
2. To explain the importance of the study of the Archaeology.
3. To understand the Archaeological developmental process in Indian History.
4. To study the Epigraphy and Excavated sites in India.

Prerequisite –

- 1.Student should have basic knowledge of ancient Indian history.

1. Introduction of Archaeology **16**

Meaning, Development of Archaeology, Periodization of Archaeological study, objectives of Archaeology, relation of Archaeology with History, Environment science, Anthropology, Geology, Solid state Physics, Chemistry, Botany, Zoology, Statistics, Computer Science, History of Indian Archaeology, Development of Indian Archaeology.

2. Search of Ancient Places and exploration - **12**

Search of Archaeological sites, Air Photography, Surveying , Aims and methods of Exploration.

3. Excavation - **13**

Selection of excavation sites, purposes and methods of excavations, Excavation instruments, excavation Technician, Director, Deputy Director, Supervisor, Surveyor, Drafrsman, Photographer, Paleographer, Numismatist, Stratigraphy, Collection, Classification and recording of Archaeological Material(Remains)

4. Photography, Drafts and Dating - **14**

1. Photography- Nature, Recording and Preservation.

2.Drafts- Drafts of Archaeological remains, determining of chronology and periods of excavated remains.

3.Methods of Dating- Relative and Absolute dating.

OR

Swami Ramanand Teerth Marathwada University, Nanded

M.A. First Year, Semester II

Paper VIII, Archaeology

Credits - 03

Periods - 55

Marks - 100

Internal Marks - Test-I-5, Test-II-5, Home Assignment-10, Seminar-05= 25 + Theory Exam -75 = Total Marks-100

1. Archaeological Remains -

16

Nature and scope, clearing and conservation of remains, Display of remains, Main Principles and methods of the preservation of remains, preservation of Monuments, resurrection of monuments, report writing of excavated remains.

2. Archaeology and public Education -

12

- a) Archaeology and public Education.
- b) Use of Computer in Archaeology.

3. Epigraphy -

13

- a) Meaning of Epigraphy, History of Epigraphical Study, Contribution of British Scholars,
- b) Important Epigraphs- 1) Inscription- Naneghat, Rock Edict XIV of Ashoka, Mathura(Chandragupta II), Kandhar(Krishna III).
- c) Copper Plates- Pune(Prabhavati Gupta), Nesri (Rashtrakuta Govind II), Kalegaon(Yadav), Kolhapur(Shilahar).

4. Excavated Sites -

14

Harappa, Mohenjodaro, Kandhar, Shiur, Jorwe, Inamgaon, Ter, Vakav, Vyahad, Chandankheda.

Books for Reading :-

१. गोखले शोभना — पुराभिलेख विद्या
२. देव शां भा.— पुरातत्व विद्या
३. देव शां भा.— महाराष्ट्रातील उत्खनने
४. सांकलीया हं. धी. व माटे म. श्री. — महाराष्ट्रातील पुरातत्व.
५. महाजन शा. ग. — दफ्तरखाने व वस्तुसंग्रहालये.
६. डॉ. कठारे अनिल, डॉ. साखरे विजया व डॉ. पाटील गौतम — पुरातत्व विद्या

Swami Ramanand Teerth Marathwada University, Nanded

Question Paper Pattern 2019-20

Subject – M.A. History

Q. 1. Descriptive Question	20
OR	
Descriptive Question	
Q. 2. Descriptive Question	20
OR	
Descriptive Question	
Q. 3. Descriptive Question	20
OR	
Descriptive Question	
Q. 4 Write Short Notes on (any three)	15
i) Short Note	
ii) Short Note	
iii) Short Note	
iv) Short Note	
v) Short Note	

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