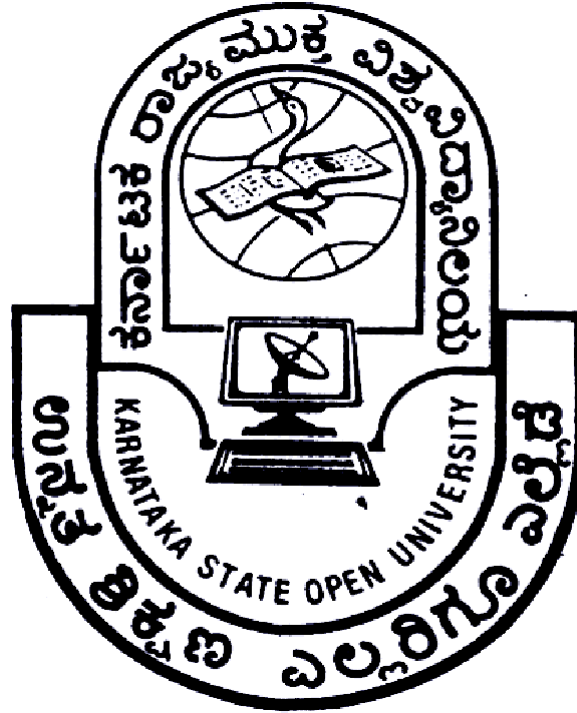


KARNATAKA STATE OPEN UNIVERSITY
PROGRAMME GUIDE
MASTER OF ARTS IN ENGLISH
(CBCS-SEMESTER SCHEME)



**DEPARTMENT OF POST GRADUATE STUDIES
AND RESEARCH IN ENGLISH**

Mukthagangothri, Mysore – 570 006

VICE-CHANCELLOR'S MESSAGE

Dear Learner,

The family of KSOU welcomes you to pursue the academic programmes you have chosen to achieve not only academic excellence but also to fulfil the desire of your career. The University established by the Act of State Legislature, it has created wonderful academic ambience. The programmes offered by the university have been recognized by University Grants Commission. Therefore, the degrees are valid for employment opportunities across the country. The 'core values' of the University is derived from its vision '**Higher Education to Everyone, Everywhere**'. The ultimate touchstone of providing quality higher education is the motto of the university. Today, higher education stands at the crossroads of keeping pace with the emerging needs of the country.

The University has adopted a school concept in its functioning. Different schools headed by Directors offer academic programmes in Humanities, Commerce, Education, Science and Social Sciences. It combines an inter-disciplinary and professional approach to pedagogy and research. The University believes that rigors of the contemporary world require competent quality human resources to create knowledge based society. The academic activities of M.A./M.Com programmes are routed through well-established department/s led by the Chairperson/s. Well-qualified teaching faculty with equally dedicated non-academic team is an asset to the university, which is always, committed for the welfare of the students.

The University functions in a 3-tier system of student support service, namely Headquarters, Regional Centres and Learners Support Centres spread all over Karnataka. The learners can undergo teaching learning process in the notified Regional Centres/Learner Support Centres. The University has adopted a mechanism to deliver Self Learning Material by print, limited audio visual and Counselling/Personal Contact Programme. As a learner, you will have greater opportunity to gain knowledge and skill through these mechanisms. The academic counsellors will play a strategic role and enable you from the enrolment of the programme till you accomplish the goal. A proper blending of the knowledge and skill will be imparted so that you will be transformed as a good citizen to contribute to the development of society and the country.

The UGC in its Public Notice dated: 23.02.2018 stated that the Degree/Diploma/Certificate Programmes awarded through distance mode are on par with corresponding Degree/ Diploma/ Certificate Programme obtained through conventional universities. The degrees acquired through distance education are recognized for the purpose of employment in State/Central Government, MNCs, and Private Sector etc. It also enables you to pursue higher education in other educational institutions. Therefore, you have greater opportunity of pursuing Higher Education without any kind of fear about your career.

I am sure you will enjoy good experience with services rendered by the university through its Regional Centres and Learner Support Centres, besides Headquarters. I wish you all the best in your academic endeavours.

Prof. Vidyashankar .S

MESSAGE FROM DEAN (ACADEMIC)

Dear Learner,

As you know education imparts knowledge and skills which empowers all to build civilized society. The education policy of the government provides a greater opportunity to accelerate Gross Enrolment Ratio (GER). Higher education is imparted both by conventional system and ODL system. The ODL system operates under access, flexibility and success.

The Karnataka State Open University, which came up in 1996 under the Act of state legislation 1992 plays a pivotal role in imparting quality education. As one of the premier institutions in ODL system of the country, the university strive hard to empower various disadvantaged sections of the society like, house wives, economically and culturally backward, tribal, senior citizens, working groups, differently abled, professionals, prison inmates etc., The University caters to the needs of students ranging from the age of 18 years to 80 years. The programmes offered by KSOU are strictly in conformity with quality and standards set by regulatory bodies UGC/AICTE etc.,

The KSOU operates on dictum quality first and students foremost. Further the university is highly committed to provide need based education to the door steps of the students. The Eminent teaching faculty and dedicated non-academic staffs in various departments and student support services create a conducive environment for teaching learning. I am confident that, as a learner in the university, you will enjoy good experience in the system.

I wish you all the best in your academic endeavours.

Prof. Kamble Ashok

Chairman's message

Dear Learner,

It is my pleasure to welcome you to the Department of English, Karnataka State Open University, which was established in the year 1996. The Master's programme in English Literature has significant areas such as American Literature, Indian Writing in English, Twentieth Century English Literature and European Classics in Translation, etc. Literature has had a major impact on the development of society, which gives a detailed preview of human experiences. It has shaped civilizations, changed political systems and revival of cultural values. Reading, Comprehension and Writing Skills would be a pre-requisite for this programme. Learning can be a pleasurable experience, when you read with an openness of mind. Hence the learners sharpen their intellectuality, enhance literary sensibilities and develop usage of vocabulary.

Learning through distance education is quite different from learning in conventional education system. In conventional education system face to face interaction, classroom activities, feedback sessions are practiced. Apparently, the proximity will develop between the teacher and learner, which creates an ideal environment for learning. Whereas in the distance education system, the situation is completely reverse. The students are a heterogeneous group; here quintessentially SLM takes the role of a teacher. Hence a number of learning activities are incorporated in SLM in a simple conversational style. Teaching through audio, video, broadcast, computer media is also used for the benefit of the learners. The learners are advised to attend the contact program for getting better exposure to the relevant program. A good dictionary is a good friend. Consulting a dictionary every now and then is a good habit and worth cultivating. This Program enables learners to engage in conversations and write with confidence in all spheres of their daily life.

Compliments to your endeavours.

Dr.Nataraju.G

Chairman

Department of Studies and Research in English

1. DEPARTMENT OF STUDIES AND RESEARCH IN ENGLISH

The Department of English, Karnataka State Open University was established in the year 1996. It offers B.A, M.A, Ph.D., Diploma and Certificate Courses. Many eminent teachers served the Department with great distinction. The faculty of the department specialized in the areas of study such as; Literary Criticism and Critical Theory, Feminism and Women's Writing, Partition Narratives, Translation Studies, Indian Writing in English, Post-colonialism, Film Studies, Gender Studies and Modernism and Postmodernism.

The English Department strengthens students by cultivating critical thinking that can spark creativity, innovation and inculcate the values of critical reading, effective writing, and the richness of literature of past and present. It further facilitates the students the acquisition of communication skills with a humanistic approach.

A language laboratory for students of the Department has been set up. Our future plans for the Department include developing a Centre for Post-Colonial Studies. Over the years, the Department has organized several ELT workshops, Conferences on various contemporary literary issues. At present, the Department has five Assistant Professors.

Faculty Details

a. Department of English

Sl. No.	Name of the Faculty	Designation	Qualification	Specialization	Experience in Years	Mobile Number
1	Dr. Nataraju .G	Assistant Professor & Chairman	M.A. Ph.D	Contemporary Theory British Literature	12	9741219820
2	Dr. Srikanth .S	Assistant Professor	M.A. M.Phil Ph.D.	European Classics	16	9986019910
3	Dr. A.S. Madhura	Assistant Professor	M.A. M.Phil Ph.D.	Holocaust Literature	13	9980900349
4	Dr. Vinutha P. Kunderi	Assistant Professor (Contract Basis)	M.A. M.Phil Ph.D.	Holocaust Studies and Dalit Literature	05	9632469430
5	Dr. John Peter S	Assistant Professor (Contract Basis)	M.A.Ph.D.	Indian writing in English	05	9743707672

2. Programme: M.A in English

M.A English programme introduces to the students the most popular literary genres, such as poetry, drama, novel, literary criticism and theory. **Poetry** captures the varieties of life and experience and gives us different perspectives on life. **Drama or Play** appeals to the audience at different levels. In a play, the plot is the basic level of communication. They are certain concerns, universal and profound, in the pattern of the play. **Novel** is an extended work of **fiction** written in prose. As an extended narrative, the novel is distinguished from the short story. The programme aims at providing instruction and carrying out research in current areas of English Studies. In addition to English Literature and American Literature, it encourages the areas such as Contemporary Theory, Kannada Fiction in Translation, New Literatures in English, Comparative Studies and European Classics.

M.A English program serves as a foundation for the students to open up avenues for further research in the field of English Literature and enhances the academic, cultural and social experience. The Program facilitates the students the choice of becoming professionally competent and increase their proficiency in English and creates a platform to air their potential, widen the literary horizons in the contemporary literary world.

MISSION AND OBJECTIVES

a. Mission:

- ❖ To impart knowledge in language and literature to the learners and equip them with the skills to meet the challenges in the field of English.
- ❖ To strengthen the institutional networking for knowledge sharing and academic excellence.
- ❖ To inculcate the individual social responsibility to meet the diverse needs of society.
- ❖ To impart quality higher education which drives the learners to be responsible citizens in a competitive world.

Objectives:

- To impart knowledge of the political, economic, socio-cultural and intellectual background, through the major literary texts in English Literature.
- To acquaint the learners with the literary movements, genres and the evolution and development of literary forms in English literature to inculcate the ethical values of life through literature.
- To sensitize the inclusive group of learners with special emphasis on special groups such as women, old persons, prisoners.etc.
- To develop and sharpen interpersonal and communication skills.
- To sharpen the learner's intellect, literary sensibilities and usage of vocabulary.

3. DELIVERY MECHANISM

The delivery mechanism followed in this University is different from that of conventional Universities. The Open University system is more learners oriented, and is geared to cater to the needs of motivated students assuming that the student is an active participant in the teaching-learning process. Instruction to student is imparted through various modes such as print, audio and supported by face to face communication during week-end counselling/PCP. The University follows multi-channel approach for instruction.

It comprises proportionate combination of:

- * Printed Self-Learning Material.
- * Audio programs transmitted through Radio.
- * Face-to-Face counselling at learners support centres by academic counsellors.

Mode of Instruction

SLM takes the role of a teacher in distance education system. The study material provided to you along with this programme guide are called self-learning material (SLM) as it facilitates learning on your own. The lessons are simple and easy to understand. The SLM have been divided into blocks and units. Each block has one credit value which means you have to devote 30 hours of study for one block, it includes, studying, discussing with counsellors, attending classes, writing assignment and so on.

Objectives are given in the beginning of each unit which tells what is expected of you by learning that unit. Check Your Progress/ Self-Assessment Questions (SAQ's) are given in content so that you can measure your progress while studying the material. Try to answer these questions which make the SLM self-evaluating. References are given at the end of each unit which gives you sources for furtherance of your study.

Duration of Programme:

The duration of the programme is **Two years. (Four Semesters)**

LEARNING OUTCOMES

M.A in English programme enables the learners to become;

- ❖ Responsible citizens in the competitive world.
- ❖ An intellectually stimulating experience of learning and studying English language and literature.
- ❖ Employment, critical, analytical and research skills, and advanced competence in oral and written communication.
- ❖ Bolster students for a liberal education and to inculcate the value of literature and language skills to help in the holistic development of individuals.

4. CBCS STRUCTURE AND EVALUATION SYSTEM

CBCS- M.A ENGLISH-FIRST YEAR I- SEMESTER -							
Course Code	Semester and Course	Credits	Counselling / PCP hours	Maximum Marks			Examination Duration Hrs
				Internal Assessment	Term- End Examination	Total	
HC1.1	ENGLISH LITERATURE FROM CHAUCER TO MILTON	4	12	20	80	100	3
HC1.2	SHAKESPEARE	4	12	20	80	100	3
HC1.3	RESTORATION AND 18 th CENTURY ENGLISH LITERATURE	4	12	20	80	100	3
HC1.4	SHAKESPEAREAN SONNETS AND CRITICISM	3	09	20	80	100	3
HC1.5	COMPARITIVE DRAMA-I	3	09	20	80	100	3

EL 1.1	Inter-disciplinary Course-I (Open Elective)	2	06	10	40	50	1½
	Semester –I Total	20	60	110	440	550	

CBCS- M.A ENGLISH - FIRST YEAR II- SEMESTER

Course Code	Semester and Course	Credits	Counselling / PCP hours	Maximum Marks			Examination Duration Hrs
				Internal Assessment	Term- End Examination	Total	
HC2.1	19 th CENTURY ENGLISH POETRY	4	12	20	80	100	3
HC2.2	19 th CENTURY PROSE & FICTION	4	12	20	80	100	3
HC2.3	20 th CENTURY ENGLISH POETRY	4	12	20	80	100	3
HC2.4	MODERN INDIAN POETRY IN ENGLISH	3	09	20	80	100	3
HC2.5	COMPARITIVE DRAMA-II	3	09	20	80	100	3
EL2.1	Inter-disciplinary Course-II (Open Elective-II)	2	06	10	40	550	1½
	Semester –II Total	20	60	110	440	550	

CBCS- M.A ENGLISH - SECOND YEAR III - SEMESTER

Course Code	Semester and Course	Credits	Counselling / PCP hours	Maximum Marks			Examination Duration Hrs
				Internal Assessment	Term- End Examination	Total	
HC3.1	INDIAN WRITING IN ENGLISH	4	12	20	80	100	3
HC3.2	AMERICAN LITERATURE	4	12	20	80	100	3
HC3.3	LITERARY CRITICISM-I	4	12	20	80	100	3
SC3.1	INDIAN WOMEN NOVELISTS	3	09	20	80	100	3
SC3.2	EUROPEAN CLASSICS IN TRANSLATION-I	3	09	20	80	100	3
SC3.3	ESSAYS	3	09	20	80	100	3
SEC-I	Skill Enhancement Course-I	2	06	10	40	50	1½
	Semester –III Total	20	60	110	440	550	

(Out of 3 soft core (SC) papers, students have to select any 2 soft core papers)

CBCS- M.A ENGLISH –SECOND YEAR IV- SEMESTER							
Course Code	Semester and Course	Credits	Counselling / PCP hours	Maximum Marks			Examination Duration Hrs
				Internal Assessment	Term- End Examination	Total	
HC4.1	LITERARY CRITICISM-II	4	12	20	80	100	3
HC4.2	20 th CENTURY ENGLISH FICTION AND DRAMA	4	12	20	80	100	3
HC4.3	NEW LITERATURES IN ENGLISH	4	12	20	80	100	3
SC4.1	KANNADA FICTION IN TRANSLATION	3	09	20	80	100	3
SC4.2	EUROPEAN CLASSICS IN TRANSLATION-II	3	09	20	80	100	3
SC4.3	SELECTIONS FROM PROSE	3	09	20	80	100	3
SEC-II	Skill Enhancement Course-II	2	06	10	40	50	1½
	Semester -IV	20	60	110	440	550	
	Semester –I to IV Grand Total	80	240	440	1760	2200	

(Out of 3 soft core (SC) papers, students have to select any 2 soft core papers)

Interdisciplinary Electives

SL No	Department	Sub Code	I Semester	Sub Code	II Semester
1	KANNADA	ELK-01	೧ನೇ ಸೆಮಿಸ್ಟರ್ ಕನ್ನಡ ಭಾಷಾ ಅಭ್ಯಾಸ	ELK-02	೨ನೇ ಸೆಮಿಸ್ಟರ್ ಕನ್ನಡ ಭಾಷಾ ಅಭ್ಯಾಸ
2	ENGLISH	ELE-01	Indian Literature -I	ELE-02	Indian Literature -II
3	HINDI	ELH-01	Vyavaharik Hindi Vyakaran	ELH-02	Hindi Cinema
4	TELUGU	ELT-01	Tilak	ELT-02	Telugu Samskruthi – Samaajam
5	HISTORY	ELHS-01	Ancient World Civilisations (Egypt, Mesopotamia, Greek, Roman, Inca, Chinese)	ELHS-02	Social Reform Movement in India
6	ECONOMICS	ELEC-01	Economic Policies of India Since 1991	ELEC-02	Institutions for International Development
7	POLITICAL SCIENCE	ELP-01	Local Government in India.	ELP-02	Indian Constitution

8	PUBLIC ADMINISTRATION	ELPA-01	Indian Polity-1	ELPA-02	Indian Polity-2
9	SOCIOLOGY	ELS-01	Invitation to Sociology	ELS-02	Study of Indian Society
10	JOURNALISM AND MASS COMMUNICATION	ELJ-01	Aspects of Journalism and Mass Communication - I	ELJ-02	Aspects of Journalism and Mass Communication - II
11	ANCIENT HISTORY AND ARCHEOLOGY	ELA-01	World heritage sites of India	ELA-02	Cultural History of Hoysalas
12	EDUCATION	ELED-01	Foundations of Education	ELED-02	Higher Education
13	COMMERCE	ELC –01	Personal Financial Planning	ELC –02	Entrepreneurship Development
14	MANAGEMENT	ELM –01	Disaster Management	ELM –02	E-Commerce
15	BIOCHEMISTRY	ELMBC –01	Basics of Bioinorganic and Biophysical chemistry for Biology graduates.	ELMBC –02	Basic Bioorganic chemistry for Biology graduates.
16	BIOTECHNOLOGY	ELMBT –01	Biotechnology Principles and applications	ELMBT –02	Fundamentals of Biotechnology
17	CHEMISTRY	ELMC –01	Open Elective I	ELMC –02	Open Elective II
18	CLINICAL NUTRITION AND DIETETICS	ELMCND –01	Healthy lifestyles and nutrition	ELMCND–02	Nutraceuticals and health foods
19	COMPUTER SCIENCE	ELMCS –01	Mobile App Development	ELMCS –02	E-Commerce
20	ENVIRONMENTAL SCIENCE	ELMES –01	Basics of Environmental Science	ELMES –02	Advances in Environmental Science
21	GEOGRAPHY	ELMG –01	Introduction to Physical Geography	ELMG –02	Geography of Karnataka
22	MATHEMATICS	ELMM –01	Fundamentals of Mathematics	ELMM –02	Combinatorics and Graph Theory
23	MICROBIOLOGY	ELMMB –01	Microbial World and Microbial Diversity	ELMMB –02	Microbes in Sustainable Agriculture and Development
24	PHYSICS	ELMP –01	Mechanics	ELMP –02	Waves and Optics
25	PSYCHOLOGY	ELMPsy –01	Introduction to Psychology	ELMPsy –02	Psychology in Everyday Life
26	INFORMATION TECHNOLOGY	ELMIT –01	Green Computing	ELMIT –02	E-Commerce
27	BOTANY (NEW)	ELMBOT –01	Plant-Microbe	ELMBOT –02	Plant Diversity and

			Interactions		Human Welfare
28	ZOOLOGY (NEW)	ELMZ –01	Parasites Vectors & communicable diseases	ELMZ–02	Essential of Reproductive Health
29	FOOD AND NUTRITION SCIENCES	ELMFNS –01	Food Psychology	ELMFNS –02	Nutritional Management in Disaster Conditions

Note:

- A. I and II Semester Open elective (Interdisciplinary Electives) syllabus are attached in Annexure – I and Annexure - II respectively.
- B. The Students may contact respective department chairperson in case of any queries regarding open elective course. The contact details available in the university website.

5. SYLLABUS M.A. ENGLISH CBCS – 2020

SEMESTER-I

HARD CORE-1.1: ENGLISH LITERATURE FROM CHAUCER TO MILTON

OBJECTIVES

- To understand the political conditions in the fourteenth century
- To understand the reasons for the end of feudalism and the growth of the nation
- To provide the students with a historical perspective of the age
- To familiarize the students with representative texts of the period

BLOCK-I

Background

BLOCK –II

Geoffrey Chaucer: *The General Prologue*

John Bunyan: *The Pilgrim's Progress*

John Milton: *Paradise Lost* -Book –I

BLOCK –III

John Donne: The Good Morrow, The Canonization

A Valediction Forbidding Mourning, Death, Be not Proud

George Herbert: The Collar, Discipline

Andrew Marvel: To His Coy Mistress, Thoughts in a Garden

John Milton: Lycidas, On His Blindness

BLOCK –IV

Christopher Marlowe: *Doctor Faustus*

Ben Johnson: *Volpone*

Suggested Reading:

- **Sala Pinto:** *The English Renaissance*. Cresset Press .London, 1938.
- **Boris Ford:** *Pelican Guide to English Literature*. Penguin Books, 1956.
- **George Samson:** *A Concise Cambridge History of English Literature*. Cambridge University Press, 1970.
- **Knights:** *Drama and Society in the Age of Johnson*. Chatto & Windus. London, 1951.
- **Helen Gardner:** *Metaphysical Poets*. Publisher: Penguin, London, 1971.
- **William R Keats:** *Seventeenth Century English Poetry*. New York: Oxford UP, 1961.
- **David Lowenstein.** Janel Mueller. *The Cambridge History of Early Modern English Literature*. Cambridge University Press, 2003.
- **Daiches, David.** *A Critical History of English Literature*. Supernova, 2011.
- **Rickett, A. Compton.** *A History of English Literature*. Filiquarian Legacy, 2012.

HARD CORE-1.2: SHAKESPEARE

OBJECTIVES

- To understand Renaissance and its salient features
- To trace the progress and development of Shakespearean plays
- To trace the development of the three main kinds of drama - comedy, tragedy and the history plays of Shakespeare
- To understand the evolution of the Elizabethan playhouses and the Elizabethan audience

BLOCK-I

Background

BLOCK –II

Macbeth

Hamlet

Julius Caesar

BLOCK –III

The Merchant of Venice

As You Like It.

BLOCK –IV

Measure for Measure

The Tempest

Richard II

Suggested Reading:

- **E.M.W. Tillyard:** *Shakespeare's Problem Plays*. Cambridge, 1951.
- **E.M.W. Tillyard:** *Shakespeare's History Plays*. Cambridge, 1964.
- **E.F.C. Ludowyk:** *Understanding Shakespeare*. Cambridge University Press. England, 1962.
- **H.B. Charlton:** *Shakespearean Comedy*. Routledge Kegan & Paul, 1966.
- **Derek Traversi:** *An Approach to Shakespeare*. Anchor Books, 1969.
- **Malcolm Bradbury and David Palmer:** *Shakespearean Comedy*. Holmes & Meier Pub, 1972.
- **Wilson Knight. G.** *The Crown of Life. The Wheel of Life*. Methuen& Co LTD, 1947.

HARD CORE-1.3: RESTORATION AND 18th CENTURY ENGLISH

LITERATURE

OBJECTIVES

- To introduce the basic representative forms of literary genres of the Restoration and 18th Century English literature
- To have a general idea of the ways in which these forms evolved in the hands of the great writers
- To provide the students with an overview of Restoration Age
- To familiarize the students with representative texts of the period

BLOCK –I

Background

BLOCK –II

Fielding: Tom Jones

Daniel Defoe: Moll Flanders

Jonathan Swift: Gulliver's Travels-Book IV

Oliver Goldsmith: The Vicar of Wakefield

BLOCK –III

Alexander Pope: The Rape of the Lock

John Dryden: Absalom and Achitophel

Gray: Elegy Written in a Country Churchyard

BLOCK –IV

Sheridan: The School for Scandal

William Congreve: The Way of the World

Suggested Reading:

- **Bonamy Dobree:** *Restoration Comedy*. Oxford University Press, 1924.

- **Walter Allen:** *The English Novel*. Penguin.London, 1970.
- **Kenneth Muir:** *The Comedy of Manners*. Hutchinson, 1970.
- **Loftis:** *Comedy and Society from Congreve to Fielding*. Stanford University Press, 1959.
- **Ian Jack:** *The Augustan Satire*. Clarendon Press.Oxford, 1952.
- **F.R. Levis:** *The Common Pursuit*. New York University Press, 1964.
- **Arnold Kettle:** *An Introduction to English Novel*. Hutchinson University Library.UK, 1951.
- **Boris Ford.** *Pelican Guide to English Literature*. Penguin Books, 1956.
- **George Samson.** *A Concise Cambridge History of English Literature*. Cambridge University Press, 1970.
- **Daiches, David.** *A Critical History of English Literature*. Supernova, 2011.
- **Rickett, A. Compton.** *A History of English Literature*. Filiquarian Legacy, 2012.

HARD CORE-1.4: SHAKESPEAREAN SONNETS AND CRITICISM

OBJECTIVES

- To trace the progress and development of Shakespearean sonnets
- To trace the history of Shakespeare Criticism from the seventeenth to the nineteenth century
- To sum up the history of the Shakespeare Criticism up to the twentieth century

BLOCK –I

Background

Sonnets: No 15, 18, 29, 30, 71, 73, 116,129,138 and 146.

BLOCK –II

A.C. Bradley: “The Substance of Shakespearean Tragedy”
(Shakespearean Tragedy)

Wilson Knight: “On the Principles of Shakespeare Interpretation.”
(The Wheel of Fire)

BLOCK –III

Caroline Spurgeon “The Subject- matter of Shakespeare’s Images”
(Shakespeare’s Imagery and What it Tells Us)

Dr. Samuel Johnson: *Preface to Shakespeare*

SUGGESTED READING:

- **E.M.W. Tillyard:** *Shakespeare’s Problem Plays*. Cambridge, 1951.
- **E.M.W. Tillyard:** *Shakespeare’s History Plays*.Cambridge, 1964.
- **E.F.C.Ludowyk:** *Understanding Shakespeare*. Cambridge University Press England, 1962.
- **H.B. Charlton:** *Shakespearean Comedy*. Routledge Kegan & Paul, 1966.
- **Derek Traversi:** *An Approach to Shakespeare*. Anchor Books, 1969.

- **Malcolm Bradbury and David Palmer:** *Shakespearean Comedy*. Holmes & Meier Pub, 1972.
- **Wilson Knight. G.** *The Crown of Life. The Wheel of Life*. Methuen & Co LTD, 1947.

HARD CORE-1.5: COMPARATIVE DRAMA-I

OBJECTIVES

- To trace the progress of Greek Theatre, its use of masks and other devices and its role in ancient Greek society
- To define Aristotle's guidelines in relation to tragedy and explain how these guidelines developed in the plays of Aeschylus, Sophocles and Euripides
- To trace the development of Greek Comedy as an instrument of social criticism

BLOCK-I

Aeschylus: *Agamemnon*

Sophocles: *Oedipus Rex*

BLOCK-II

Euripides: *Medea*

Aristophanes: *The Frogs*

BLOCK-III

Racine: *Phaedra*

Moliere: *Tartuffe*

Suggested Reading:

- **H.D.F. Kitto:** *Greek Tragedy*. Routledge, 1950.
- **C.M. Bowra:** *Ancient Greek Literature*. Thornton Butterworth Ltd; First edition, 1933.
- **Allardice Nicoll:** *World Drama*. Chambers 2nd edition, 1976
- **Gassner:** *A Reader's Encyclopedia of World Drama*. Courier Corporation, 2002.
- **Bamber Gascoigne:** *Twentieth Century Drama*. Hutchinson, 1974.
- **H.W. Wells:** *The Classical Drama of India*. New York, 1963.

SEMESTER-II

HARD CORE-2.1: 19th CENTURY ENGLISH POETRY

OBJECTIVES

- To familiarize students with artistic and moral imagination and aesthetics of 19th Century Poetry

- To inspire, nurture and develop spiritual affinities with nature through poetry
- To instill in the students a sense of compassionate aesthetics that promotes social conscience
- To provide the students with a historical perspective of the age
- To familiarize the students with representative texts of the period

BLOCK-I

Background

BLOCK-II

William Blake: The Tyger, The Sick Rose, London

William Wordsworth: The Prelude- Book I

Lines Composed a Few Miles Above Tintern Abbey

Resolution and Independence, The World is too Much with Us

BLOCK-III

Samuel Taylor Coleridge: The Ancient Mariner

John Keats: Ode to the Nightingale, Ode on a Grecian Urn, Ode to Autumn

P.B. Shelly: Ode to the West Wind, To a Skylark

BLOCK-IV

Mathew Arnold: Dover Beach, The Scholar Gypsy

Robert Browning: Andrea Del Sarto, My Last Duchess, The Last Ride Together, Prospice

Alfred Tennyson: The Lotos Eaters, Ulysses

Suggested Reading:

- **Bowra.C.M:** *The Romantic Imagination*.Oxford, 1961.
- **Abraham M.H:** *The Mirror and the Lamp*.USA, 1972.
- **C.Brooks and Robert Warren:** *Understanding Poetry*. U.S.4th edition, 1976.
- **M. Bodkin:** *Archetypal Patterns in Poetry*.Oxford, 1965.
- **Graham Hough:** *The English Romantic Poets*. Hutchinson University Library, 1970.
- **Hugh Walker:** *The Literature of the Victorian Era*. Cambridge University Press, 1921.
- **Sola Pinto.** *Crisis in English Poetry*. Hutchinson, 1967.
- **Boris Ford.** *Pelican Guide to English Literature*. Penguin Books, 1956.
- **George Samson.** *A Concise Cambridge History of English Literature*. Cambridge University Press,1970.
- **Daiches, David.** *A Critical History of English Literature*. Supernova, 2011.
- **Rickett, A. Compton.** *A History of English Literature*. Filiquarian Legacy, 2012.

HARD CORE-2.2: 19th CENTURY PROSE & FICTION

OBJECTIVES

- To familiarize the students with artistic and moral imagination and aesthetics of 19th Century Prose and Fiction
- To instill in the students a sense of compassionate aesthetics that promotes social conscience
- To provide the students with a historical perspective of the age
- To familiarize the students with representative texts of the period

BLOCK –I

Background

BLOCK –II

John Ruskin: *Unto This Last*

J.S.Mill: On Liberty

Mathew Arnold: Culture and Anarchy

Charles Lamb: In Praise of Chimney Sweepers

BLOCK –III

Jane Austen: *Emma*

Emily Bronte: *Wuthering Heights*

Charlotte Bronte: *Jane Eyre*

BLOCK –IV

George Eliot: *Middlemarch*

Charles Dickens: *Great Expectations*

Thomas Hardy: *The Return of the Native*

Suggested Reading:

- **Bowra.C.M:** *The Romantic Imagination*.Oxford, 1961.
- **Abraham M.H:** *The Mirror and the Lamp*.USA, 1972.
- **Hugh Walker:** *The Literature of the Victorian Era*. Cambridge University Press, 1921.
- **Boris Ford.** *Pelican Guide to English Literature*. Penguin Books, 1956.
- **George Samson.** *A Concise Cambridge History of English Literature*. Cambridge University Press, 1970.
- **Daiches, David.** *A Critical History of English Literature*. Supernova, 2011.

- **Rickett, A. Compton.** *A History of English Literature*. Filiquarian Legacy, 2012.

HARD CORE-2.3: 20th CENTURY ENGLISH POETRY

OBJECTIVES

- To introduce the students to the social, political and cultural milieu of the age
- To familiarize the students with the representative texts of the period
- To provide the students with a historical perspective of the age
- To familiarize the students with the representative texts of the period

BLOCK –I

Background

BLOCK –II

G.M. Hopkins: Selections: God's Grandeur, The Wind Hover, Pied Beauty, Felix Randal,
Thou Art Indeed Just Lord

W.B. Yeats: Selections: Easter 1916, Sailing to Byzantium, Byzantium, The Second Coming

Thomas Hardy: The Man He Killed, The Darkling Thrush

BLOCK –III

T.S. Eliot: *The Waste Land*, The Hollow Men

Auden: The Unknown Citizen; O, What is that Sound, In Memory of W.B. Yeats

Lawrence: Snake, **Dylan Thomas:** Fern Hill

BLOCK –IV

Kipling: Gunga Din, Mandalay

Philip Larkin: Church Going; Next, Please

Ted Hughes: Thought Fox, Hawk Roosting

Seamus Heaney: Tollund Man

Suggested Reading:

- **Sola Pinto:** *Crisis in English Poetry*. Hutchinson, 1967.
- **G.Bullough:** *Trend of Modern Poetry*. Oliver & Boyd; Second Edition, Revised edition, 1941.
- **F.R.Leavis:** *New Bearings in English Poetry*. University of Michigan Press, 1960.
- **C.Brooks and Robert Warren:** *Understanding Poetry*. U.S.4th edition, 1976.

- **Jenny Stringer.** *The Oxford Companion to 20th Literature in English.* Oxford University Press, 1996.
- **Boris Ford.** *Pelican Guide to English Literature.* Penguin Books, 1956.
- **George Samson.** *A Concise Cambridge History of English Literature.* Cambridge University Press, 1970.
- **Daiches, David.** *A Critical History of English Literature.* Supernova, 2011.
- **Rickett, A. Compton.** *A History of English Literature.* Filiquarian Legacy, 2012.

HARD CORE-2.4 : MODERN INDIAN POETRY IN ENGLISH

OBJECTIVES

To introduce the students to

- The phenomenon of Indian poetry in English of the twentieth century
- The aspects of national identity, gender and use of the English language in Indian poetry in English

BLOCK-I

Nissim Ezekiel: Night of the Scorpion; Poet, Lover, Birdwatcher

Kamala Das: My Grandmother's House; Punishment in Kindergarten

A.K. Ramanujan: A River; Ecology

BLOCK-II

Arun Kolatkar: Scratch; An Old Woman

Jayant Mahapatra: Freedom; Grandfather

Shiv K. Kumar: Pilgrimage; Indian Women

BLOCK-III

R. Parthasarathy: "My tongue in English chains"; "I am no longer myself" (from Homecoming)

Gieve Patel: On Killing a Tree; Servants

Adil Jussawalla: Sea Breeze Bombay; Approaching Santa Cruz Airport, Bombay

Ravichandra P Chittampalli: The Year of the Dragon

Suggested Reading:

- **R. Parthasarathy.** *Ten Twentieth Century Indian Poets*, 1976.
- **Mehrotra Arvind Krishna.** *The Oxford India Anthology of Twelve Modern Indian Poets*, 1997.
- **Bruce King.** *Modern Indian Poetry in English*, 2005.
- **Sudeep Sen.** *The Harper Collins Book of English Poetry*, 2012.
- *Lake View: International Journal of Literature and Arts.* Vol.4, 2016.
- **K.R.Srinivas Iyengar:** *Indian Writing in English.* Macmillan, 1979

- **M.K.Naik:** *Perspectives on Indian Poetry in English*. Abhinav Publications, 1985.

HARD CORE-2.5 : COMPARATIVE DRAMA-II

OBJECTIVES

- To trace the progress of Greek Theatre/Epic Theatre , its use of masks and other devices
- To define Aristotle's guidelines in relation to tragedy and explain how these guidelines developed in the plays prescribed

BLOCK-I

Kalidasa: *Shakuntala*

Shudraka: *Mrichhakatika*

BLOCK-II

Henrik Ibsen: *Ghosts*

Anton Chekhov: *The Cherry Orchard*

BLOCK-III

Brecht: *The Caucasian Chalk Circle*

Pirandello: *Six Characters in Search of an Author*

Sean' O Casey: *Juno and the Paycock*

Suggested Readings:

Allardice Nicoll: *World Drama*. Chambers, 2nd edition, 1976

Gassner: *A Reader's Encyclopedia of World Drama*. Courier Corporation, 2002.

Bamber Gascoigne: *Twentieth Century Drama*. Hutchinson, 1974.

H.W.Wells: *The Classical Drama of India.*, New York, 1963.

SEMESTER –III

HARD CORE-3.1: INDIAN WRITING IN ENGLISH

OBJECTIVES

To introduce the students to

- The phenomenon of Indian poetry in English

- The aspects of national identity, gender and use of the English language in Indian Literature in English
- To evaluate Lord Macaulay and Raja Ram Mohan Roy writers of English prose
- To introduce the role of autobiographies in Indian Writing in English

BLOCK –I

Rabindranath Tagore: *Gitanjali*

Nissim Ezekiel: *Enterprise; Night of the Scorpion; In India*

A.K. Ramanujan: *Looking for a cousin on a Swing; Small Scale Reflections on a Great House*

Kamala Das: *An Introduction. After the Illness*

Toru Dutt: *The Lotus, Our Casuarina Tree*

Sarojini Naidu: *Selections: Palanquin Bearers, Indian Weavers, Coromandel Fishers*

BLOCK –II

R.K. Narayan: *The Financial Expert*

Raja Rao: *The Serpent and the Rope*

BLOCK -III

Mulk Raj Anand: *Untouchable*

Anita Desai: *Where Shall We Go This Summer?*

BLOCK -IV

Jawaharlal Nehru: *An Autobiography*

Ram Mohan Roy: *Letter to Lord Amherst*

Macaulay: *Minutes on Indian Education*

Vivekananda: *Address to the Parliament of Religions*

Suggested Reading:

- **K.R.Srinivas Iyengar:** *Indian Writing in English*. Macmillan, 1979.
- **M.K.Naik:** *Critical Essays on Indian Writing in English*. Sahitya Akademi, 1969.
- **Narasimhaiah C.D:** *The Swan and the Eagle*. Indian Institute of Advanced Study, 1987.
- **Meenakshi Mukherjee:** *The Twice Born Fiction*. Heinemann Educational Publishers, 1972.
- **R.K.Dhawan:** *Indian Women Novelists*. Prestige, 1991.
- **M.K.Naik:** *Perspectives on Indian Poetry in English*. Abhinav Publications, 1985.
- **Chirantan Kulshrestha.** *Contemporary Indian English Verse: An Evaluation*. Arnold-Heinemann, 1981.
- **R. Parthasarathy.** *Ten Twentieth Century Indian Poets*, 1976.

- **Mehrotra Arvind Krishna.** *The Oxford India Anthology of Twelve Modern Indian Poets*, 1997.
- **Bruce King.** *Modern Indian Poetry in English*, 2005.

HARD CORE-3.2: AMERICAN LITERATURE

OBJECTIVES

- To introduce students to the literature of the United States of America.
- To familiarize them with the important literary movements of the period.
- To give a firsthand knowledge of the outstanding works and authors of American Literature.

BLOCK –I

Transcendentalism; American Renaissance.

Emerson: The American Scholar, Self-Reliance

Thoreau: *Walden*

BLOCK –II

Walt Whitman: A Noiseless Patient Spider, When Lilacs Last in the Dooryard Bloomed

O Captain! My Captain!

Emily Dickinson: I Heard a Fly Buzz When I Died, Because I Could Not Stop for Death

The Soul Selects Her Own Society, The Last Night That She Lived

My Life Closed Twice Before Its Close.

Robert Frost: Birches; Mending Wall, Stopping by Woods on a Snowy Evening

The Road Not Taken

BLOCK –III

Nathaniel Hawthorne: *The Scarlet Letter*

Mark Twain: *Huckleberry Finn*

Hemingway: *The Old Man and the Sea*

BLOCK –IV

Arthur Miller: *Death of a Salesman*

Tennessee Williams: *A Street Car Named Desire*

Suggested Reading:

- **F.O.Matthiessen:** *American Renaissance*. Oxford University Press, 1968.
- **Richard Chase:** *The American Novel and its Tradition*. John Hopkins University Press, 1980.
- **Downer:** *Fifty Years of American Drama*. Gegney, 1951.

- **John Gassner and Anthony Quinn:** *The Encyclopedia of World Drama*. London: Methuen, 1970.
- **Spiller R.E.:** *Literary History of the United States*. Macmillan; Third Edition, 1969.
- **Hart, James David.** *The Oxford Companion to American Literature*. New York: Oxford UP, 1983
- **Ross, Donald.** *Companion to American Literature: Historical and Cultural Background*. New York: Peter Lang, 2000.
- **Bradley, Sculley, Richmond C. Beatty, and E H. Long.** *The American Tradition in Literature*. New York: Norton, 1967.
- **Ronald Gottesman:** *The Norton Anthology of American Literature*, 1979.
- **Sacvan Bercovitch:** *The Cambridge History of American Literature*, 2008.
- **Fischer, Reninger.** *The American Literature of the Nineteenth Century: An Anthology*. New Delhi: S. Chand & Company, 2002.
- **Ford, Boris.** *The New Pelican Guide to English Literature: 9. American Literature*. Penguin Books, 1988.
- **Jacob, J.** *History of American Literature*. New Delhi: Sublime Publishers, 2005.
- **Lehman, David.** *The Oxford Book of American Poetry*. New York: OUP, 2006.

HARD CORE-3.3: LITERARY CRITICISM-I

OBJECTIVES

- To introduce the students the classical criticism of Aristotle, Longinus, etc
- To familiarize with the major literary critics of 19th & 20th Century Literary Criticism

BLOCK –I

Aristotle: *Poetics*. **Longinus:** *On the Sublime*

BLOCK –II

William Wordsworth: *Preface to the Lyrical Ballads*

Coleridge: *Biographia Literaria* (Chapter No.3, 4, 13, 14 & 17)

BLOCK –III

Matthew Arnold: *The Study of Poetry*

Henry James: *The Art of Fiction*

BLOCK –IV

T. S. Eliot: *Tradition and Individual Talent*

F.R. Leavis: *Literature and Sociology*

Suggested Reading:

- **Rene Wellek:** *A History of Modern Criticism*. Yale University Press, 1986.
- **F.R. Leavis:** *Revaluation*. Ivan R. Dee, 1936.
- **Northrop Frye:** *Anatomy of Criticism*. Princeton University Press, Princeton, 1957.
- **David Lodge:** *Modern Criticism and Theory*. Longman, 2008.

- **Rafey Habib:** *Modern Literary Criticism and Theor.*, 2008.
- **Habib, M. A. R.** *A History of Literary Criticism: From Plato to the Present.* Rev. Ed. Wiley Blackwell, 2012.
- **Nagarajan, M.S.** *English Literary Criticism & Theory: An Introductory History.* Hyderabad: Orient Longman, 2006.
- **Waugh, Patricia.** *Literary Theory & Criticism: An Oxford Guide.* Delhi: OUP, 2006.
- **Daiches, David.** *Critical Approaches to Literature.* Rev. Ed. Hyderabad: Orient Longman, 2001.

SOFT CORE 3.1: INDIAN WOMEN NOVELISTS

OBJECTIVES

- To enable the students to understand experimental and innovative techniques used in the writings of Indian Women Novelists
- To instill in the students a sense of compassionate aesthetics that promotes social conscience
- To provide the students with a historical perspective of the age
- To familiarize the students with representative texts of the period

BLOCK –I

Shashi Deshpande: *That Long Silence*

BLOCK –II

Arundati Roy: *God of Small Things*

BLOCK –III

Kamala Markandaya. *Nectar in a Sieve*

Suggested Reading:

- **R.K.Dhawan:** *Indian Women Novelists.* Prestige, 1991.
- **K.R.Srinivas Iyengar:** *Indian Writing in English .*Macmillan, 1979.
- **M.K.Naik:** *Critical Essays on Indian Writing in English.*Sahitya Akademi,1969.
- **Narasimhaiah C.D:** *The Swan and the Eagle.* Indian Institute of Advanced Study, 1987.
- **Meenakshi Mukherjee:** *The Twice Born Fiction.* Heinemann Educational Publishers, 1972.

SOFT CORE 3.2: EUROPEAN CLASSICS IN TRANSLATION-I

OBJECTIVES

- To trace the development of European literature , the impact of Renaissance on the writers
- Introduce classics and find out the unique qualities of these classics

BLOCK –I

Flaubert: *Madame Bovary*

BLOCK –II

Cervantes: *Don Quixote*

Albert Camus: *The Outsider*

BLOCK –III

Stendhal: *Scarlet and Black*

Thomas Mann: *Death in Venice*

Suggested Reading:

- **Bruno Boesch.** *German Literature: a Critical Survey*, Methuen and Co, Ltd., London 1973.
- **Anthony Thorlby:** *Gustavo Flaubert and the Art of Realism*, 1956.
- **Paul Konrad Kurz:** *On Modern German Literature* .University of Alabama Press, 1970.
- **George Lukacs:** *Studies in European Realism*. Grosset & Dunlap, 1964.
- **Ronald Gray:** *The German Tradition in Literature 1871-1945*. C.U.P Cambridge, 1967.
- **Roy Pascal.** *The German Novel*. Methuen, London, 1965.
- **W.P. Friederich.** *An Outline History of German Literature*, Barnes and Noble, New York 1970.

SOFT CORE 3.3: ESSAYS

OBJECTIVES

- To learn to comprehend a literary piece
- To define the essay as a form of literature
- To understand the origin of the essay
- To distinguish between various types of the essay

BLOCK –I

Francis Bacon: Of Studies, Of Travel, Of Ambition

Joseph Addison: Ladies Head Dress, The Exercise of a Fan

Richard Steele: Recollections, A Prize Fight

BLOCK –II

Charles Lamb: In Praise of Chimney Sweepers, Poor Relations

William Hazlitt: On the Feeling of Immortality, On the Ignorance of the Learned

R.L.Stevenson: Walking Tours, A Plea for Gas Lamps

BLOCK –III

Leigh Hunt: Getting up on Cold Mornings, A Few Thoughts on Sleep

Hillaire Belloc: A Conversation with a Reader

Oliver Goldsmith. National Prejudices

Suggested Reading:

- **Hugh Walker:** *The English Essays and Essayists*. J.M. Dent & Sons, Limited, 1915.
- **Boris Ford:** *Pelican Guide to English Literature*. Penguin Books, 1956.
- **George Samson:** *A Concise Cambridge History of English Literature*. Cambridge University Press, 1970.
- **Daiches, David.** *A Critical History of English Literature*. Supernova, 2011.

SKILL ENHANCEMENT COURSE-I

COMMUNICATIVE ENGLISH-PART-I

OBJECTIVES

- To provide expertise in language and communication skills
- To evolve different ways of testing language proficiency
- To enhance the candidate's ability to understand the dynamics of social interaction

BLOCK-I- PHONETICS AND LISTENING COMPREHENSION

- **Phonetics-I:** Airstream mechanism, Organs of speech and Speech sounds.
- **Phonetics-II:** Diphthongs, Syllable, Word Accent and R.P (Received Pronunciation)
- Listening Comprehension

BLOCK-II-CONVERSATIONAL AND FORMAL ENGLISH

- Conversational English- Beginnings
- Conversation: Different Situations
- Connected Discourse
- Formal English
- Usage

Suggested Reading:

- **Balasubramanian T.** *A Textbook of English Phonetics: For Indian Students*. Macmillan, 2000.
- **A.J. Thomson & A.V Martinet.** *A Practical English Grammar*. Oxford University Press, 1986.
- **F.T .Wood.** *A Remedial English Grammar for Foreign Students*. Trinity Press, 2014

- **Wren and Martin.** *English Grammar & Composition.* Blackie, 2015.
- **Mccomas.** *Modern Business Correspondence.* McGraw Hill Post, 1992.
- **F.W.King &D.A.Cree:** *Modern English Business Letters.* Longman, 1977.
- **A.N.Kapoor.** *A Guide to Business Correspondence and Communication Skills.* S.Chand, Ltd, 2010.

SEMESTER –IV

HARD CORE-4.1 LITERARY CRITICISM-II

OBJECTIVES

- To familiarize students with contemporary issues in literary theory and criticism
- To introduce the recent developments in critical theories
- To enable students to comprehend dominance of theory in the postmodern phase
- To study literary theory as an intellectual and critical activity in the 20th Century

BLOCK –I

Modernism, Postmodernism, New Criticism, Feminism, Post colonialism, Marxism.

Deconstruction, Structuralism, Poststructuralism, Psychoanalysis.

BLOCK –II

Jacques Derrida: “Structure, Sign, and Play in the Discourse of the Human Sciences”

Roland Barthes: “The Death of the Author”

Carl Jung: “Psychology and Literature”

BLOCK –III

I.A. Richards: A Psychological Theory of Value, Two Uses of Language.

Denys Thompson: Reading & Discrimination

Practical Criticism.

BLOCK –IV

Elaine Showalter: “Towards a Feminist Poetics”

Helen Cixous: “The Laugh of the Medusa”

Suggested Reading:

- **Rene Wellek:** *A History of Modern Criticism*. Yale University Press, 1986.
- **Cleanth Brooks:** *The Well-Wrought Urn*. Mariner Books, 1956
- **David Lodge:** *Modern Criticism and Theory*. Longman, 2008.
- **Terry Eagleton:** *Literary Theory: An Introduction*. University of Minnesota Press. 3rd edition, 2008
- **Habib,** *A History of Literary Criticism and Theory*. Malden: Blackwell, 2005.
- **Culler, Jonathan.** *Literary Theory: A Very Short Introduction*, OUP, 1997.
- **Barry, Peter.** *Beginning Theory: An Introduction to Literary & Cultural Theories*. 2nd Ed. Manchester: Manchester University Press, 2004.
- **Bertens, Hans.** *Literary Theory: The Basics*. New York: Routledge, 2003.
- **Ransom, John Crowe.** *The New Criticism*. New York: New Directions, 1941.
- **Leitch, Vincent B,** ed. *The Norton Anthology of Theory and Criticism*. New York: Norton, 2001.
- **I.A.Richard:** *Practical Criticism*. London: Routledge & Paul, 1964.
----- *Principles of Literary Criticism*. London: Routledge, 2003.

HARD CORE-4.2: 20th CENTURY ENGLISH FICTION AND DRAMA

OBJECTIVES

- To sensitize students to the momentous changes in the 20th century literature
- To enable them to understand experimental and innovative techniques used in literature
- To introduce the students to the social, political and cultural milieu of the age
- To familiarize the students with the representative texts of the period
- To provide the students with a historical perspective of the age
- To familiarize the students with the representative texts of the period

BLOCK –I

Background

E.M.Foster: *A Passage to India*

D.H.Lawrence: *Sons and Lovers*

BLOCK –II

Joseph Conrad: *Heart of Darkness*

Virginia Woolf: *To the Lighthouse*

BLOCK-III

John Osborne: *Look Back in Anger*

Samuel Beckett: *Waiting for Godot*

BLOCK-IV

G.B. Shaw: *St. Joan*

T.S. Eliot: *The Cocktail Party*

Suggested Reading:

- **E.M. Foster:** *Aspects of the Novel*. Edward Arnold. United Kingdom, 1956.
- **Bamber Gascoigne:** *Twentieth Century Drama*. Hutchinson, 1974.
- **Raymond Williams:** *Reading and Criticism*. Frederick Muller LTD, 1950.
- **Raymond Williams:** *When was Modernism?* University of Bristol, 1987.
- **Jenny Stringer.** *The Oxford Companion to 20th Literature in English*. Oxford University Press, 1996
- **Kermode, Frank, and John Hollander.** *Modern British Literature*. New York: Oxford UP, 1973.

HARD CORE- 4.3: NEW LITERATURES IN ENGLISH

OBJECTIVES

- To introduce the students to the tenets and principles of New Literatures in English.
- To familiarize the representative texts of Canada, the Caribbean, Africa and Australia
- To introduce African Literature and its importance in the world literature.
- To introduce the predominant genres as well as the social, cultural and political background infused with the prescribed texts.

BLOCK-I

E.J. Pratt: *The Dying Eagle*, **Wole Soyinka:** *Telephone Conversation*

David Diop: *Africa*, **A.D.Hope:** *The Death of the Bird*

Dereck Walcott: *Almond Trees*, *Far Cry from Africa*

Dennis Brutus: *At a Funeral*

BLOCK-II

Chinua Achebe: *Arrow of God*

Wole Soyinka: *Lion and the Jewel*

BLOCK-III

Margaret Atwood: *Surfacing*
V. S. Naipaul: *A House for Mr. Biswas*
Patrick White: *A Fringe of Leaves*

BLOCK –IV

Wilson Harris: Tradition and the West Indian Novel

Northrop Frye: The Archetypes of Literature

Chinua Achebe: The Novelist as a Teacher

Suggested Reading:

- **Margaret J. O’ Donnell.** *An Anthology of Commonwealth Verse.* Blackie & Son, 1963.
- **William Walsh.** *Commonwealth Literature.* Macmillan, 1979.
- **Narasimhaiah, C. D.** *Commonwealth Literature: Problems of Response.* Madras: Macmillan India, 1981.
- **Press, John.** *Commonwealth Literature: Unity and Diversity in a Common Culture.* London: Heinemann, 1965.
- **Smith, Rowland.** *Post colonizing the Commonwealth: Studies in Literature and Culture.* Waterloo: Wilfrid. Laurier UP, 2000.
- **Simon Gikandi.** *The Routledge Encyclopedia of African Literature,* 2009.
- **Killam, G.D.** *The Writings of Chinua Achebe.* London: Heinemann Educational, 1977.
- **Achebe, Chinua.** *Things Fall Apart.* Arnold. Heinemann, 1988.
- **Ashcroft, Bill Ashcroft.** *The Post-Colonial Studies Reader,* London and New York: Routledge, 2006.
- ---. *Key Concepts in Post-Colonial Studies,* London and New York: Routledge, 1998.
- **Bhabha, Homi.** *Nation and Narration,* London and New York: Routledge, 1990.
- **Fanon, Frantz.** *Toward the African Revolution: Political Essays.* Grove Press, 1969.
- **Killam, G. D.** *The Novels of Chinua Achebe. Studies in African Literature Series,* London: Heinemann, 1978
- **King, Bruce,** ed. *The New National and Postcolonial Literatures: An Introduction.* Oxford: Clarendon, 1996.
- **Said, Edward.** “Introduction” to *Orientalism,* London: Routledge, 1978.

SOFT CORE 4.1: KANNADA FICTION IN TRANSLATION

OBJECTIVES

- To understand the aspects of regional identity and use of language
- To familiarize the students with the contemporary kannada fiction
- To help the students to interpret texts in the context of Indian society in the modern period

- To make students understand the major concerns, themes and motifs in modern kannada literature such as traditions, modernity, gender, caste and cultural politics through the reading of the prescribed texts

BLOCK-I

Kuvempu: *The House of Kanooru.*

BLOCK -II

Alanahalli Sri Krishna: *The Avatars of Bhujangaiah*

BLOCK-III

Ananta Murthy: *Samskara*

Suggested Reading:

- **Ahmad, Aijaz.** “Indian Literature’: Notes towards the Definition of a Category”. *In Theory: Classes, Nations, Literatures.* New Delhi: OUP, 1994.
- **Mukherjee, Sujit .***Towards a Literary History of India.* Simla: Indian Institute of Advanced Study, 1975.
- **Tiwari, Shubha.** *Indian Fiction in English Translation.* New Delhi, Atlantic, 2005.
- **K.R.Srinivas Iyengar:** *Indian Writing in English .*Macmillan, 1979.
- **M.K.Naik:** *Critical Essays on Indian Writing in English.*Sahitya Akademi, 1969.

SOFT CORE 4.2: EUROPEAN CLASSICS IN TRANSLATION-II

OBJECTIVES

- Trace the development of European literature , the impact of renaissance on the writers
- To comprehend the unique qualities of the prescribed texts.

BLOCK –I

Leo Tolstoy: *Anna Karenina*

BLOCK –II

Dostoevsky: *Crime and Punishment*

Franz Kafka: *The Trial*

BLOCK –III

Nikolai Gogol: *The Overcoat*

Gunter Grass: *The Tin Drum*

Suggested Reading:

- **Bruno Boesch.** *German Literature: a Critical survey,* Methuen and Co, Ltd., London, 1973.
- **Gray, Ronald.** *Franz Kafka.* Cambridge University Press, 1973.

- **Roy Pascal:** *The German Novel* Methuen, 1965.
- **Paul Konrad Kurz:** *On Modern German Literature* .University of Alabama Press, 1970.
- **George Lukacs:** *Studies in European Realism*. Grosset & Dunlap, 1964.
- **Gray, Ronald:** *The German Tradition in Literature 1871-1945*. C.U.P Cambridge, 1967.
- **W.P. Friederich.** *An Outline History of German Literature*, Barnes and Noble, New York, 1970.

SOFT CORE.4.3: SELECTIONS FROM PROSE

BLOCK –I

Thomas De Quincey: On the Knocking at the Gate in Macbeth

Rabindranath Tagore: The Cabuliwallah

Guy de Maupassant: The Necklace

William Hazlitt. On Going a Journey

BLOCK –II

Issac Asimov: Someday

Richard Steele: A Prize Fight

Oliver Goldsmith: Beau Tibbs

S. Radhakrishnan: Science, Humanities and Religion

BLOCK -III

George Orwell: Politics and the English Language

Katherine Mansfield: The Fly

D.H.Lawrence: Tickets, Please

Mulk Raj Anand: The Barber's Trade Union

Suggested Reading:

- **Hugh Walker:** *The English Essays and Essayists*.J.M. Dent & Sons, Limited, 1915.
- **James. Eirian.** *An Anthology of English Prose 1400–1900*. Cambridge University Press, 2015
- **Trilling, Lionel.** *The Liberal Imagination. Essays on Literature and Society*. Garden City, N.Y. Doubleday, 1950.
- **Orwell. George.** *Essays*. Everyman's Library, 2002
- **S. Radhakrishnan.** *Religion, Science and Culture*. Orient Paperbacks, 2019.
- **Mulk Raj Anand.***The Barber's Trade Union and Other Stories:* Kutub-Popular, 1959.
- **Boris Ford.** *Pelican Guide to English Literature*. Penguin Books, 1956.

- **George Samson.** *A Concise Cambridge History of English Literature*. Cambridge University Press, 1970.
- **Daiches, David.** *A Critical History of English Literature*. Supernova, 2011.
- **Rickett, A. Compton.** *A History of English Literature*. Filiquarian Legacy, 2012.

SKILL ENHANCEMENT COURSE-II

COMMUNICATIVE ENGLISH-PART-II

OBJECTIVES

- To provide expertise in language and communication skills
- To evolve different ways of testing language proficiency
- To enhance the candidate's ability to understand the dynamics of social interaction

BLOCK-I- WRITING SKILLS-I

- Commercial Writing, Report Writing, Memo and Covering Letters
- Paragraph Writing, Short Essays and Precis Writing

BLOCK-II -WRITING SKILLS-II

- Expansion of an Idea, Use of Fixed Expressions and Resume Writing
- English for E-mail, English for Internet

Suggested Reading:

- **A.J. Thomson & A.V Martinet.** *A Practical English Grammar*. Oxford University Press, 1986.
- **F.T .Wood.** *A Remedial English Grammar for Foreign Students*. Trinity Press, 2014
- **Wren and Martin.** *English Grammar &Composition*. Blackie, 2015.
- **Mccomas.** *Modern Business Correspondence*. McGraw Hill Post, 1992.
- **F.W.King &D.A.Cree:** *Modern English Business Letters*. Longman, 1977.
- **A.N.Kapoor.** *A Guide to Business Correspondence and Communication Skills*. S.Chand.Ltd, 2010.

INTER- DISCIPLINARY COURSE

(Open Elective) for First Semester

«²ÁÚÀ– PÀÀÀÀÀ

YÀwÀ–6: DzsÀÀÀ PÀÀÀÀÀ ,Á»vÀÀ Ew^oÁ,À EL 1.1 (PÉæmi–3)

“ÁèPi–19: DzsÀÀÀ P PÀÀÀÀÀ ,Á»vÀÀ ÀÀÀÄRi WÀIOUÀÀÀ

WÀIPÀ–73: DzsÀÀÀ PÀÀÀÀÀ ,Á»vÀÀÀ »ÉÉÉ vÀÀvÀÀ ÉÉæÀgÀUÉUÀÀÀ.

WÀIPÀ–74: ÉÀÉÇÄZÀÀÀÀÀ ÀSvÀð, ÉÀÉÇÄZÀÀÀÀÀ– ©JA.²æÄ., PÀÀÉÀÀÀ, ZÀ.gÁ. “ÉÄZÉæ, ²vÀgÁvÀÀPÁgÀÀvÀ, vÀiÁÁUvÉAPÀMÉÄ± CAiÀÀUÁgi, PÉ.J ,i. ÉÀgÁAÀ^oÀ,ÁÉ«Ä.

WÀIPÀ–75: YÀUÀw²Ä^o vÀÀvÀU ÉÀvÀi: CÉÀP, PÀÀOÀvÀÀÀ, ægÀAdÉ, ZÀZÀgÀUÀ, «.PÀ. UÉSÁPÁPÀ, CrUÀ, f.J ,i. ²vÀgÁÄZÀÀÀÀ, ±ÁAwÉÁx| zÉÄ,Á–Ä, CÉÀvÀvÀÄSwð, AiÀ±ÀvÀvÀ avÁU^o, ©APÉÄ±i, vÉÄdAé, vÉÉzÉÄ», «ÄuÀ ±ÁAvÉÄ±gÀ, «dAiÀiÄZÀ“Éi.

WÀIPÀ–76: ŠAqÁAiÀÀ vÀÀvÀÀ zÀÀvÀ:

ŠgÀUÀSgÀÀ gÁvÀZÀAzÀæYÀÀ, ©.n. ©ävÁÉÁAiÀPÀ, ,ÁgÁ CŠsŠPÀgi, zÉÄvÀÉÀsgÀÀ vÀÄ^oÁzÉÄvÀ, AzÀPÀAUÀÀÀÀ, CgÀ«AzÀ vÀiÁ^oUÀwU, vÉsUÀ½ UÀUÉÄ±À.

“ÁèPi–20: DzsÀÀÀ P PÀÀÀÀÀ PÁ^oÀÀ ÀÀvÀU ,Á»vÀ YÀæPÁgÀUÀÀÀ

WÀIPÀ–77: PÁvÀÀ YÀæPÁgÀUÀÀÀ: “sÁvÀVÁvÉ, ,ÀÀÀvÀ, ±ÉsÁPÁVÁvÉ, YÀæUÁxÀ.

WÀIPÀ–78: PÀxÀÉ PÁvÀ, RAqÀ PÁvÀ, vÀÄ^oÁPÁvÀÀ.

WÀIPÀ–79: ,Á»vÀÀ YÀæPÁgÀUÀÀÀ: PÀÉ, PÁZÀÀSj, ÉÁIPÀ fÁvÀÉ ZÀjvÉæ.

WÀIPÀ–80: ©ävÀ YÀæŠAZÀ, DvÀPÁvÉ, YÀævÀ,Á ,Á»vÀÀ, ,ÀYÁZÀÉÉ «ZÁgÀ ,Á»vÀÀ, «eÁÖÉ ,Á»vÀÀ

YÀgÁ^oÀÀ±Àð À ÀÀæAxÀUÀÀÀ

1. °És,ÀUÀÉq| ,Á»vÀÀ: Jeĩ.J ,i. ±ÉÄµÀVjgÁvĩ, PÀÉqÀ ,Á»vÀÀ YÀjµÀvĩ, “ÉAUÀÀÀsgÀÀ, 1992

2. AiÀÀUÀZsÀvÀÄð vÀÀvÀU ,Á»vÀÀ zÀ±ÀðÉk QÁwðÉÁx| PÀÀvÀðPÉsÄn, vÀÄÉÉsÄ^oÀgÀ UÀæAxÀ vÀiÁéÉ, zsÁgÀvÀqÀ, 1991

3. PÀÉq| ,Á»vÀÀ Ew^oÁ,À: gÁA.²æÄ vÀÀUÀÀ½, VÁvÀ ŠAPi °É ,i, vÉÄÉ,ÀsgÀÀ, 2018

4. PÀÉqÀ ,Á»vÀÀ ,ÀAUÁw: QÁwðÉÁx| PÀÀvÀðPÉsÄn, PÀÉqÀ «±ÀÉ«ZÁÀÀAiÀ, °ÀA!, °És,ÀYÉÄmÉ 1995

5. PÀÉqÀ ,Á»vÀÀ ,ÀAUÁw: (YÀæ,ÀA) ŠgÀUÀSgÀÀ gÁvÀZÀAzÀæYÀÀ, PÀÉÁðIPÀ ,Á»vÀÀ CPÁqÉ«Ä, 2018

6. PÀÉq| ,Á»vÀÀ ZÀjvÉæ: vÀ.À. ±ÁvÀÄgÁAiÀ, vÀ¼QÉ vÉAPtUÁiÀÀ ,ÁgÀPÀ UÀæAxÀvÀiÁéÉ vÉÄÉ,ÀsgÀÀ, 2014

7. °És,ÀUÀÉqÀ PÁvÀ YÀæPÁgÀUÀÀÀ: YÀæzsÁÉ ,ÀYÁZÀPÁgÀÀ, J.gÀUÀÀ,ÁÉ«Ä, eÉÄ. vÀÄ. gÁvÀÄPÁU, YÀæ,ÁgÀUÀ, PÁgÁvÀÀ«, vÉÄÉ,ÀsgÀÀ, 2010

8. DzsÄÄP , Á»vÄä ¥ÄæPÄgÄUÄ¼ÄÄ: ¥ÄæzsÁÉÄ , ÄÄ¥ÄzÄPÄgÄÄ, J. gÄAUÄ, Áé«Ä, eÉÄ. qÁ. f.Dgi. w¥ÉäÄ, Áé«Ä, ¥Äæ, ÁgÄAUÄ, PÄgÄvÄÄÄ«, vÉÄÉ, ÄsgÄÄ, 2010

DEPARTMENT - HINDI

व्यावहारिक हहदी एविं व्याकिण

वणण ववचाि

- वर्ण
- स्वर और उसका वर्गीकरण
- व्यजन और उसका वर्गीकरण
- वर्ों का उच्चारण स्थान
- संधि
- समास

शब्द ववचाि

- शब्द के भेद
- अथण के आिार पर शब्द भेद
- व्युत्पत्ति के आिार पर शब्द भेद
- रचना के आिार पर शब्द भेद
- प्रयोग के आिार पर शब्द भेद
- ववकारी और अववकारी शब्द भेद
- अव्यय
- सज्ञा और उसके भेद
- वचन- उसके भेद, वचन पररवनि के ननयम
- ल र्ग - उसके भेद, ल पररव नि के ननयम
- का और उसके भेद
- कारक और ववभूतति- उसके प्रकार,
- सवनाम और उसके भेद
- ववशषर् और उसके भेद
- क्रिया और उसके भेद
- क्रिया ववशषर् और उसके भेद

- समव्युत्पन्न बोलिक और उसके भेद
- सवर्णबोलिक और उसके भेद
- ववस्मयाददबोलिक और उसके भेद
- परसर्गण और उपसर्गण
- वाच्य और उसके प्रकार

वाक्य व्यवहार

- वातय का अथण और पररभाषा
- वातय के प्रकारआहद

उपसर्गण और परसर्गण

- उपसर्गण उपसर्गण उपसर्गण- उपसर्गण उपसर्गण उपसर्गण उपसर्गण.
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DEPARTMENT - TELUGU

E. L. 1.1 Thilak Prathyeka Adhyayanam

Block - 1:Thilak Kavithvam - 1

Unit - 1:Amrutham Kurisina Raathri

Unit - 2:Thilak Padhya Kavithaa Vaibhavam

Unit - 3:Thilak Abhiruchulu - Alavaatlu

Unit - 4: Thapala bantrothu

Block - 2: Thilak Kavithvam

Unit - 1:Thilak Sahithya Parichayam - 1

Unit - 2: Thilak Sahithya Parichayam - 2

Unit - 3: Thilak vachana kavithaa Vaibhavam - 1

Unit - 4: Thilak Vachana Kavithaa Vaibhavam – 2

DEPARTMENT - HISTORY

ANCIENT WORLD CIVILIZATIONS

(Egypt, Mesopotamia, Greek, Roman, Inca, Chinese)

Objective: The course is aims to understand major world civilizations. It is to provide a global historical perspective of ancient world which special reference to Egypt, china, Greek, Roman, Inca civilizations.

Pedagogy: personal contact programmes, audio video programmes, online lectures
Assignments, etc

Credits: 2.

Examination Duration: 11/2 hours and Maximum Marks:40

Course outcomes:

After completing this course the students should be able to

- Discuss the Egyptian and Mesopotamian civilizations.
- Analyse the political socio economic conditions of Greek Roman civilizations.
- Evaluate the Chinese contributions to ancient world.

Block – I

Unit-1

Egyptian Civilization: Importance of the Nile, Geographical importance, Gift of Nile, Political conditions.

Unit-2

Social, Economic and religious conditions, Literature and learning, arts and architecture.

Unit-3

Mesopotamian Civilization, Sumer and Babylonian, Hammurabi's code, Society and Culture, Economic conditions, art and literature, Assyrian Empire.

Unit - 4

Greek Civilization, Political Organizations, the city, State, Alexander the Great, Greek political theory, Religion, Philosophy, art and architecture, Characteristic of Hellenistic Civilization.

Block – II

Unit - 5

Roman Civilization, The Land and the people, the Government, Roman Republic, Roman Empire, Roman Republic, The Empire, The Patricians and Plebeians, Punic wars.

Unit – 6

Julius Caesar, his wars, fall Augustus Caesar, Social Economic Conditions, Roman art and architecture.

Unit - 7

Painting, Sculpture, Roman Law, Roman Religion, Philosophy, Roman literature, Decline of the Roman Empire.

Unit - 8

Inca Civilisation, Socio – economic Political conditions, Chinese Civilisation, Socio – economic Political conditions.

Suggested readings:

1. Breasted, J.H. : Ancient Times, A History of the early world.
2. Rostovzeff, M.S. : History of Ancient World
3. Schvidler, H. : The History of Civilization
4. Swain, J.E. : A History of World Civilization
5. Breasted, J.H. : History of Egypt
6. Jastrow, M. : The Civilization of Babylonia and Assyria
7. Bury, J.E. & OTHERS: The Hellenistic Age
8. Bailey, C. : The Legacy of Rome and others
9. Abot, F.F.: Society and Politics of Ancient Rome

DEPARTMENT – ECONOMICS

EL1.1: Economic Policies of India Since 1991.

- **Objective:** To enable the Students to understand the economic policies of India in the era of new economic policy.
- **Pedagogy:** A Combination of Lectures, Group Discussion, Assignments.
- **Credits:** 2 ; Examination Duration: 1½ and Maximum Marks: 50 (Internal Assessment Marks = 10 and Semester-end Examination = 40)

Course Inputs

BLOCK – I: India's Economic Policies

UNIT : 1 Economic Policies in India Since 1991

Economic reforms in India – Economic Scenario in India during 1990-91 – Domestic Financial Crisis – Balance of Payment Crisis – Extent of External debt and debt Trap Problem.

UNIT : 2 Need for Reforms

Measures Taken – Devaluation – Privatization – Liberalization – Globalization.

UNIT : 3 Monetary Policy and Fiscal Policy

Narasimhan Committee on Banking and Financial Sector Reforms Since 1998 – Fiscal Reforms: Raja Chellaiah Committee and Tax Reform Policies – Fiscal Prudence and Policies.

UNIT : 4 Structural Adjustments and External Sector in India

Foreign Trade: Trends in Exports and Imports – Balance of Payment and its Crisis – Export Import Policy – In Defence of Import Substitution – Foreign Exchange Policy.

BLOCK : II FDI and the Role of State

UNIT : 5 Foreign Direct Investment (FDI)

Trends in FDI – FDI Policy – Its Impact on the Domestic Economy – Labour Migration: causes and Consequences on Indian Economy – Information and Communication Revolution and India.

UNIT : 6 Challenges to Development in India

Poverty – Unemployment – Poverty alleviation Programmes - urban Poverty and Problems – Income Inequality – Employment Generating Schemes.

UNIT: 7 The Role of State

Parallel Economy in India – Black Money – Corruption – Slams – Redefining the Role of the State and the Markets – Balance between Economic and Socio - Political Goals.

UNIT : 8 Administrative Reforms

Rights to Information – Measures Towards Good Governance – NITI Ayoga and aftermath – Digitalized India – Demonetization – GST – Make in India.

References:

1. Acharya Shankar, (2003) India's Economy: Some Issues and Answers, Academic Foundation, New Delhi.
2. Byres J Terence (Ed.,) (1999) The Indian Economy, Major Debates since Independence, OUP, New Delhi.
3. Datt Ruddar, (2002) Economic Reforms in India - A Critique, S.Chand and Co, New Delhi.
4. Kapila Uma (Ed) (2015) Indian Economy since Independence, Academic Foundations, New Delhi.
5. Kapila Uma, (2005) Understanding the Problem of Indian Economy, Academic Foundation, New Delhi.
6. Misra S.K. & V.K. Puri, (2011) Indian Economy-Its Development Experience, Himalaya Pub., House, Mumbai.
7. NCAER, Economic and Policy Reforms in India, NCAER, New Delhi.
8. Rangarajan C, (1998) Indian Economy- Essays on Money and Finance, UBSPD, New Delhi.
9. Sachs D.Jeffrey, A.Varshney & N Bajpai (Ed)(1999) India in the Era of Economic Reforms,OUP, New Delhi.
10. Vaidyanathan A, India's Economic Reforms and Development, OUP, New Delhi

DEPARTMENT - POLITICAL SCIENCE

(OEL-I) Local Government in India

Block-I

- Unit:1 Meaning, Nature and Scope of Local Governments.
- Unit:2 Evolution of Panchayat Raj Institution in India.
a) Constituent Assembly and Village Panchayat.
b) Balavanth Roy Mehta Committee Report
c) Ashok Mehta Committee Report.
d) G.V.K. Rao Committee Report.
- Unit:3 Constitutional Amendments and Panchayat Raj Institutions:
a) Basis of Constitutional Amendment.
b) 73rd and 74th Constitutional Amendment.
c) Karnataka Panchayat Raj Act of 1983.
d) Karnataka Panchayat Raj Act of 1993.
- Unit:4 Zilla Panchayat: Structure, Functions and Sources of Revenue.

Block-II

- Unit:5 Taluk Panchayat : Structure, Functions, Executive Officer, Powers and Functions.
- Unit:6 Gram Panchayat: Gram Sabha, Ward Sabha: Structure, Functions and Sources of Revenue.
- Unit:7 Panchayat Development Officer and Secretary: Powers and Functions.
- Unit:8 Role of Panchayat Raj Institutions in Development (with Reference to Karnataka)
a) Panchayat Raj in Rural Development.
b) Social Change: Empowerment of the Weaker Sections.

References:

1. Verma B. M, Social justice and Panchayath Raj
2. Mutarib-M.A. and Others, Theory of Local Government,
3. Dr. Arjun darshankar, Panchayath Raj aani Nagari.
4. V. B. Patil, Panchayath Raj.
5. A.N. Kulkarni, Bharatiya Sthanik Swashasan,
6. Shantaram Bhosale, Bharatiya Sthanik Shasan,
7. Kikherji. S, Essays on Rural Development.
8. Balaramu. C. H. Administration of Anty Poverty Programmes.
9. 73rd Constitutional Amendment Act, Government of India, 1993.
10. Karnataka Panchayat Raj Acts, 1985, 1995.

DEPARTMENT – PUBLIC ADMINISTRATION

INDIAN POLITY – I

BLOCK – 1

- UNIT – 1 Indian Constitution. .

- UNIT – 2 Preamble - Meaning and Importance.
- UNIT – 3 Fundamental Rights and Duties.
- UNIT – 4 Directive Principles of State Policy and Relation with Fundamental Rights.

BLOCK – 2

- UNIT – 5 Indian Federalism and Parliamentary system of Government.
- UNIT – 6 Centre - State Relations. Legislative Administrative and Financial
- UNIT – 7 Union Executive - President Elections, Powers and Positions.
- UNIT – 8 Council of Ministers and Prime Ministers - Powers and Functions

DEPARTMENT - SOCIOLOGY

Invitation to Sociology

(02 Credits)

Course Description

This course introduces learners to the basic concepts of sociology. It is particularly designed to orient the learners from interdisciplinary background about the essence of sociology and intends to inculcate sociological imagination.

Course Objectives

- To introduce the learner to the basic concepts and processes of sociology
- to comprehend the structural and organizational aspects of society
- to examine the process of social change

Learning Outcomes and Competencies

After successfully completing the course, following outcomes and competencies are possible among the learners. Learner will have/can

- Conceptual precision and clarity about the basic sociological concepts
- Develop sociological imagination and apply to analyze the contemporary events
- explain major social processes of society
- analytical view about Indian social structure
- explicate major process of social change and can conceptualize the changing aspects of Indian society

Course Contents

Block-1 Basic Concepts and Processes

- Unit-1 Emergence of Sociology-Factors and Early Thinkers-Sociological Imagination
- Unit-2 Society, Community- Associations and Institutions- Culture and Socialization
- Unit-3 Social System, Structure and Function
- Unit-4 Social Processes-Cooperation, Competition, Conflict, Accommodation and Assimilation

Block-2 Social Organization and Social Change

Unit-5 Caste and Class System-Changes in Caste

Unit-6 Social Mobility and Types

Unit-7 Factors of Social Change

Unit-8 Process of Social Change in India (Sanskritization, Westernization, Modernization and Globalization)

References

1. Berger, Peter L. 1978. An Invitation to Sociology, Allen and Unwin, London. Davis, Kingsley. Human Society, Macmilan, New Delhi.
2. Dumont, Louis, 1988, Homo Hierarchicus. Oxford University Press. Giddens, Anthony. 2009. Sociology. Politi Press, Malden.
3. Inkles, Alex. 2002. What is Sociology, Prentice Hall India, New Delhi. Jayaram, N, 1990, Introductory Sociology, Macmilan, New Delhi.
4. Johnson Harry M., 2011: Sociology: A Systematic Introduction: Allied Publishers, New Delhi.
5. MacIver, R.M and C.H. Page. Society - Introduction to Sociology, Macmilan, New Delhi
6. Samuel, Koenig. 1957. Sociology: An Introduction to Science of Society, Barnes & Nobel Books, London.
7. Singh, Yogendra. 1993: Social Change in India: Crisis and Resilience, Har-Anand, New Delhi.

DEPARTMENT – ANCIENT HISTORY AND ARCHEOLOGY

AHA
OE 1.1

World Heritage Sites of India

Block - 1

Introduction

Unit - 1 Nature - Scope - Criteria for incorporation of World Heritage sites

Unit - 2 Types of World Heritage sites in India

Block - 2

Archaeological and Cave Heritage sites

Unit - 3 Bimbetka - Sanchi- Nalanda – Champaner - Dholavira

Unit – 4 Ajanta – Ellora - Elephant

Block - 3

North Indian World Heritage Sites

Unit – 5 Bodh Gaya — Kajuraho—Konarak—Rani kivav— Jaipur,

Unit – 6 Agra Fort – Red Fort - FatehpurSikri—Taj Mahal – Humayun’s Tomb –

Ahamadabad, Qutub Minar

Block - 4

South Indian World Heritages Sites

Unit – 7 Mahabalipuram – Pattadakallu – Chola temples

Unit - 8 Monuments of Hampi – Churches and Convents of Old Goa – Ramappa Temple

References:

1. Marco Canneo, Jasmina: The world heritage sites of UNESCO – The Treasure of Art
2. ASI: World Heritage Sites Series
3. Individual guide: Books on respective city Individual

DEPARTMENT - EDUCATION

IDC – 1 FOUNDATIONS OF EDUCATION

BLOCK-1 FOUNDATIONS OF EDUCATION – I

Unit-1 Philosophical Foundations

Unit-2 Basic Concepts of Philosophy

Unit-3 Psychology as a Science

Unit-4 Basic Concept in Psychology related to Education

BLOCK-2 FOUNDATIONS OF LEARNING – II

Unit-5 Sociological bases of Education

Unit-6 Educational Issues in Indian Society

Unit-7 Cultural and Historical Foundations

Unit-8 Political and Economic bases of Education

References:

1. Harison and Myers (1970), Education, Manpower and Economic Growth, McGrothill, Oxfords, IBH Publishing Co., New Delhi.
2. Kamala Bhatia & Baldev Bhatia, (1974) The Philosophical and Sociological Foundations of Education, Doaba House, New Delhi.
3. Bhatia B.D, (1974), 'Theory and Principles of Education, Doaba House, Delhi'.
4. Sorokim .P, (1947) 'Society, Culture and Personality', Harper and Brothers Publishers, New York.

DEPARTMENT – COMMERCE

EL1.1: Personal Financial Planning

Objective: To enable the Students to understand about the different Investment Avenues, Saving Schemes designed by various agencies particularly for the individuals.

Pedagogy: A Combination of Lectures, Group Discussion, Assignments.

Credits: 2

Examination Duration: 1¹/₂ and Maximum Marks: 50

(Internal Assessment Marks = 10 and Semester-end Examination =40)

Course Inputs

Block I

- **Unit -1: Introduction to Financial Planning:** Introduction - The Process Financial Planning – Client Interactions – Time Value of Money Applications – Personal Financial Statements – Cash Flow and Debt Management – Planning to Finance Education.
- **Unit -2: Financial Planning Process:** Introduction - Setting Goals – Informal Budget Preparation – Investment Opportunities – Financial Vs Physical Investments – Role of a Financial Planner.
- **Unit -3: Savings Plans:** Introduction - Setting Goals – Savings Instruments – Savings Plan – Tax Savings Schemes.
- **Unit -4: Investment Planning:** Introduction - Risk Return Analysis – Mutual Fund – Derivatives – Asset Allocation – Investment Strategies and Portfolio Construction and Management.

Block II

- **Unit -5: Risk Analysis and Insurance Planning:** Introduction - Risk Management and Insurance Decision in Personal Financial Planning – Various Insurance Policies and Strategies for General Insurance – Life Insurance – Motor Insurance – Medical Insurance.
- **Unit -6: Retirement Planning and Benefits:** Introduction - Retirement Need Analysis Techniques – Savings and Investment Plans for Retirement –Employee Provident Fund – Public Provident Fund – Superannuation Fund – Gratuity – Annuity Plans.
- **Unit -7: Tax Planning:** Introduction - Income-tax Computation for Individuals – Companies - Trust and other bodies – Statutory Provisions Pertaining to Capital Gains and Indexation – House Property – Deduction and Allowances.
- **Unit -8:Health Financing:** Introduction - Health Financing Models – Financing of Health in India – National Rural Health Mission – Challenges of Access to Health Care and Service Quality – Health Insurance Mechanism & Financial Protection.

Books Recommended for Reference

01. Khan M.Y, Financial Services, Tata MacGraw Hill.
02. Singhanar V.K, Students' Guide to Income Tax, Taxmann.
03. Ranganathan and Madhuamathi, Investment Analysis and Portfolio Management, Pearson Publications.
04. Gordon and Natarajan, Emerging Scenario of Financial Services, Himalaya Publishing House.
05. George Rejda, Principles of Risk Management and Insurance, Pearson.

DEPARTMENT - MANAGEMENT

COURSE: OE-1 : Disaster Management - Credit: 2

MBAS 459: DISASTER MANAGEMENT

Objectives	: The course aims at familiarizing the students with the concepts of disaster management, need for disaster management and its relevance.
Pedagogy	: Lectures, assignments, Industrial visits and practical exercises, discussions.

1. Understanding Disasters · Meaning, nature, characteristics and types of Disasters, Causes and effects, Disaster: A Global View, Disaster Profile of India, The Disaster Management cycle.
2. Geological and Mountain Area Disasters · Earthquakes · Volcanic Eruption · Landslides · Snow Avalanches, Wind and Water Related Natural Disaster · Floods and Flash Floods · Droughts · Cyclones · Tsunamis, Man Made Disasters · Understanding Man-Made Disasters · Fires and Forest Fires · Nuclear, Biological and Chemical disaster · Road Accidents
3. Introduction to disaster Preparedness · Disaster Management: Prevention, Preparedness and Mitigation · Disaster Preparedness: Concept & Nature · Disaster Preparedness Plan · Disaster Preparedness for People and Infrastructure · Community based Disaster Preparedness Plan
4. Roles & Responsibilities of Different Agencies and Govt. · Roll of Information, Education, Communication & Training · Role and Responsibilities of Central, State, District and local administration. · Role and Responsibilities of Armed Forces, Police, Para Military Forces. Role and Responsibilities of International Agencies, NGO's, Community Based Org. (CBO's)
5. Technologies for Disaster Management · Role of IT in Disaster Preparedness · Remote Sensing, GIS and GPS · Use and Application of Emerging Technologies · Application of Modern Technologies for the Emergency communication. · Application and use of ICST for different disasters.
6. Disaster Mitigation · Disaster Mitigation: meaning and concept · Disaster Mitigation Strategies · Emerging Trends in Disaster Mitigation · Mitigation management · Role of Team and Coordination
7. Disaster Management in India Disaster Profile of India – Mega Disasters of India and Lessons Learnt Disaster Management Act 2005 – Institutional and Financial Mechanism National Policy on Disaster Management, National Guidelines and Plans on Disaster Management; Role of Government (local, state and national), Non-Government and Inter-Governmental Agencies. National Disaster management Authority.

References

1. Bryant Edwards (2005): Natural Hazards, Cambridge University Press, U.K.
2. Carter, W. Nick, 1991: Disaster Management, Asian Development Bank, Manila.
3. Central Water Commission, 1987, Flood Atlas of India, CWC, New Delhi.
4. Central Water Commission, 1989, Manual of Flood Forecasting, New Delhi.
5. Government of India, 1997, Vulnerability Atlas of India, New Delhi.
6. Sahni, Pardeep et.al. (eds.) 2002, Disaster Mitigation Experiences and Reflections, Prentice Hall of India, New Delhi.

DEPARTMENT - BIO CHEMISTRY

Basics of Bioinorganic and Biophysical chemistry for Biology graduates.

Bioinorganic chemistry

Coordination Compounds: Transition metals, properties (Colour, Oxidation states, Magnetic properties) Coordinate bond, double and complex salts– differences with examples.

Postulates of Warner's theory. Types of ligands: For examples: uni, bi, polydentate ligands. Coordination number, examples.

Porphyrin nucleus and their classification. Important metallo-porphyrins occurring in nature. Structure and biological importance of Heme, cytochrome, chlorophyll, Vitamin B₁₂. Nitrogen, Fixation of atmospheric nitrogen – Symbiotic and non-symbiotic. Nitrogen cycle.

Environmental pollution by nitrogen compounds. Phosphorous: Importance of Phosphorous compounds in biological system, phosphorous cycle

Oxygen, Formation of ozone in atmosphere. Role of ozone in maintenance of life on earth. Effect of environmental pollutants on ozone layer.

Sulphur and Selenium, Importance of compounds of Sulphur and Selenium in biological systems. Effect of sulphur compounds on environmental pollution.

Biophysical chemistry.

Units in chemistry, Avogadro's number, Mole, Mole fraction, Molarity, Equivalent weight, Normality, Molality. Colligative Properties, Osmotic pressure and its measurements. Hypo-, Hyper- and isotonic solutions. Effect of osmotic pressure on living cells.

Donnan membrane equilibrium. Relative lowering of vapour pressure, Raoult's law. Elevation of boiling point, depression in freezing point.

Adsorption: Freundlich and Langmuir's adsorption isotherm. Applications of adsorption.

Viscosity: Definition, determination of viscosity of liquids & solutions by Ostwald's viscometer (solutions of gum and protein to be taken as examples).

Distribution law, Distribution law, partition coefficient, application of distribution law.

Acids, bases and buffers- Lewis concept of acids and bases. Ionic product of water. pH scale, buffers, Henderson- Hasselbach equation, buffer capacity Choice of buffers. Theory of acid base indicators. pH titration curve and iso-electric pH of amino acids.

Selected References:

1. Basic Principles of Organic Chemistry, Roberts and Caserio, W. A. Benjamin, Inc. (1964).

2. Organic Chemistry, Morrison and Boyd, Allyn and Bacon Inc (1992).
3. Principles of Inorganic chemistry by Cotton & Wilkinson, Wiley (1999).
4. Textbook of Organic chemistry by Ahluwalia V K & Madhuri G Narosa publications (2001).
5. Physical chemistry by Castellan G W, Narosa Publications (2004).
6. Physical chemistry by Chakraborty D K, Narosa Publications (2004).

DEPARTMENT - BIOTECHNOLOGY

MBT EL –I- Biotechnology and its Applications

Introduction to biotechnology. Principles of biotechnology, classification.

Recombinant DNA Technology

Introduction, outline of genetic engineering procedure, restriction endonucleases, cloning & expression vectors- plasmids, cloning in plasmid, transformation and detection of transformants- lacZ, genomic and cDNA libraries, gene analysis techniques-hybridization: Southern, Northern, Western, in situ, Polymerase chain reaction.

Microbial and food and environmental Biotechnology

Basics of fermentation technology: Types of microbial culture- batch, continuous and fed-batch. Microbial production: Use of microbes in production of vitamins, enzymes, organic acids, amino acids, polysaccharides, flavors, sweeteners, proteins and antibiotics.

Fermented food products- yogurt, cheese, tempeh, sauerkraut; beverages- wine and beer. Pre- and Pro-biotics, single cell proteins, Genetically modified foods, designer foods.

Current status of biotechnology in environment. Bioconservation, biofuels, gasohol, biogas. Bioremediation: Concepts and principles, bioremediation using microbes, in situ and ex situ bioremediation, biosorption and bioaccumulation of heavy metals.

Plant Biotechnology

Landmarks in Plant tissue culture. Types of cultures- embryo, organ, callus and cell cultures, Somatic embryogenesis, Haploid Production, Androgenesis, Protoplast culture and somatic hybridization. Micropropagation- Methods and stages, applications. Synthetic seeds, somaclonal variation. Production of secondary metabolites by plant cells, Biotransformation.

Plant transformation techniques: Direct and indirect methods of gene transfer in plants. Transgenic plants and crop improvement- herbicide tolerance, disease resistance, abiotic stress tolerance, delayed ripening, improvement of nutritional quality, molecular pharming.

Animal Biotechnology

Basics of animal cell culture techniques, cell lines, physical conditions for culturing animal cells, equipments required, scale-up of culture methods.

Application of animal cell culture- Hybridomas, production of therapeutic antibodies, stem cell technology, cell and tissue engineering.

Genetic engineering of animals: Methods for gene transfer in animals, microinjection, nuclear transplantation, retrovirus-mediated gene transfer, gene knockdown techniques. Transgenic- animals- sheep, pigs, cattle, chickens; applications of transgenic animals.

DEPARTMENT - CHEMISTRY

Block-1	Title: Periodic Table and chemical Periodicity
Unit-1	Elements, atomic structure, atomic number, atomic mass, quantum numbers, electronic configuration,
Unit-2	Periodic properties of elements, State of Matter, their resources. Important periodic properties of the elements, covalent radii, ionic radii, ionization potential, electron affinity and electronegativity
Unit-3	Concepts of Acids and Bases: Review of acid base concepts. Lux-Flood and solvent system concepts. Hard-soft acids and bases. Applications.
Unit-4	Solutions: Concentration units, solutions of liquids in liquids, Raoult's law, ideal and non-ideal solutions.

Block-2	Title: Bonding and molecular structure
Unit-5	Calcification of matter: (elements, compounds, substance and mixture), The three states of matter, physical and chemical properties of matter, fundamental particles of atoms, atomic number, atomic mass, atomic structure of atom molecular formula, empirical formula, molecular mass.
Unit-6	Ions and ionic compounds, properties of ionic compounds, formation of ionic compounds, covalent compounds, properties of covalent compounds, properties of covalent compounds
Unit-7	Metals, properties of metals, theory of metallic bond formation, types of metals conductor, semiconductor and insulators, n-type semiconductors and p-type semiconductors, alloys and superconducting materials.

Unit-8	Acids and bases, general properties of acid and bases, Acid base reactions, oxidation reduction reactions, oxidation number, types of redox reactions, balancing oxidation-reduction equation, exothermic and endothermic reactions energy change in chemical reactions.
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DEPARTMENT : CLINICAL NUTRITION AND DIETETICS

OEL-1: HEALTHY LIFESTYLES AND NUTRITION 3 Credits

BLOCK 1: INTRODUCTION TO FOOD AND NUTRITION

Unit 1.- Factors affecting food habits, choices and dietary patterns – Definition of Food, Nutrition, Health, Fitness. Interrelationship between nutrition and health, concept of a desirable diet for optimum nutrition, health and fitness.

Unit 2.- A brief review of nutrients in general –

- Energy and macronutrients – Carbohydrates, Protein, Fat - functions, sources deficiency disorders and recommended intakes.
- Micronutrients: Minerals – calcium, Iron, Iodine, and other elements, Vitamins – Fat Soluble & Water Soluble.

Unit 3: Nutritional assessment- Anthropometric, biochemical, clinical, dietary and Biochemical assessments

Unit 4: Basic principles of planning diet –, RDA for Indians, Food groups, Dietary guides and balanced diets.

BLOCK 2: PLANNING OF DIET

Unit 5: Principles of planning a normal diet: characteristics of a normal diet, meeting nutrient requirements of individuals and family. Use of Dietary guidelines for Indians.

Unit 6: Objectives of diet therapy- Regular diet and rationale for modifications in energy and other nutrients, texture, fluid, soft diets etc.

Unit 7: Role of dietitian in hospital- specific functions, team approach in patient care, psychological consideration, interpersonal relationship with patients. Nutrition and medical ethics. Hospital dietary- scope and importance, types of food service, quality management.

Unit 8: Nutrition counseling: definition, concept, role of clinical dietitian, the recipient and counseling environment and goals of counseling. An overview of systems approach to nutritional care and its components (planning, implementation and evaluation).

REFERENCES

- Srilakshmi B (2004) Nutrition Science. New Age International (P) Ltd, Publishers.
- Kango M (2005) Normal Nutrition, Curing diseases through diet. First Edition CBS Publications. Paul S (2003) Text Book of Bio-Nutrition, Fundamental and Management. RBSA Publishers.
- Williams SR (2000) Nutrition and Diet Therapy. Sixth Edition C.V. Melskey Co.
- Mudambi SR and Rajagopal MV (1997) Fundamentals of Foods and Nutrition. New Age International (P) Ltd, Publishers.
- Swaminathan M (1999) Essential of Food and Nutrition. Vol I and II, Bappco publications, Madras.
- Corinne, H. Robinson 2010– “Normal and Therapeutic nutrition”, Oxford and IBH publishing company, Bombay.
- B. Srilakshmi – 2012 “Dietetics”, 4th edition, New age international publisher, Chennai

DEPARTMENT - COMPUTER SCIENCE

ELMCS-01 Mobile App Development: Credit 2

Block – I

Unit-1: Introduction to Mobile Computing: applications, a simplified reference model, Wireless Transmission:

Unit-2: Frequencies of radio transmission, signals, antennas, signal propagation, multiplexing, modulation, spread spectrum, cellular system.

Unit-3 Media Access Control: motivation for a specialized MAC, SDMA, FDMA, TDMA, CDMA, and Comparisons.

Unit-4: GSM, DECT, Wireless LAN: Infrared vs. radio transmission, Infrastructure and ad-hoc networks, IEEE 802.11, HPERLAN, Bluetooth.

Block – II

Unit-5: Mobile Network Layer: mobile IP, dynamic host configuration protocol,

Unit-6: ad-hoc networks. Mobile Transport Layer: Traditional TCP, classical TCP improvements,

Unit-7: TCP over 2.5/3G wireless networks. File Systems, World Wide Web,

Unit-8: Wireless Application Protocol (WAP) and WAP 2.0.

Text book:

1. Jochen H. Schiller, Mobile Communications(2e)

Reference

1. Raj Kamal, Mobile Computing
2. Asoke K. Talukder, Roopa R. Yavagal, Mobile Computing

3. Mazliza Othman, Principles of Mobile Computing and Communications
4. Prasant Kumar Pattnaik, Rajib Mall, Fundamentals of Mobile Computing
5. Ivan Stojmenovic, Handbook of Wireless Networks and Mobile Computer
6. David Taniar, Mobile Computing Concepts, Methodologies, Tools, and Applications

DEPARTMENT - ENVIRONMENTAL SCIENCE

ESOEL-1: Basics of Environmental Science

Block I: Ecology and Environment

Unit 1: Definition, Principles and Scope. Biotic and abiotic factors of environment. Ecosystems: pond, forest, river, grassland and estuary ecosystems

Unit 2: Ecosystem – trophic structure, energy flow, food chain, food web, Ecological pyramids.

Unit 3: Population dynamics: Definition, population density, Natality, Mortality, Age structure, Growth pattern, population dispersion.

Unit 4: Biogeochemical cycle – types, sedimentary and gaseous cycles, N, C, S, P, O cycles. Rock and hydrological cycles.

Block II: Biodiversity and Conservation

Unit 5: Biodiversity, Definition, Types of Biodiversity, importance and roles.

Unit 6: Needs and benefits of biodiversity, Loss of biodiversity- causes and consequences, Need for conservation of biodiversity

Unit 7: Conservation strategies, endemic and exotic species, Red Data book, National parks, wildlife sanctuaries, biosphere reserves, biodiversity hotspots, wildlife protection act, biodiversity act, wetland conservation and management, Hotspots of biodiversity.

Unit 8: Project Tiger, Project elephant, Ramsar site and other conservation projects. Experts Committee Reports on Environmental conservation

DEPARTMENT - GEOGRAPHY

ELMG –01, Introduction to Physical Geography (Credit-2)

Block-1

Origin, Shape and Size of the Earth, Movement of the Earth- Rotation and Revolution, Effects of the movement of Earth, Coordinates -Latitude, Longitude and Time; Structure of the Earth, Rocks - types, significance, Weathering –types; Agents of Denudation - River, Glacier, Wind and Under Ground water; Structure and Composition of Atmosphere, Weather and Climate

Block-2

Atmospheric Pressure, Winds and Precipitation; Distribution of Land and Sea, Submarine Relief of the Ocean, Temperature and Salinity of Sea Water; Ocean Tides and Oceanic Currents- Atlantic, Pacific and

Indian Oceans; Biosphere- Elements, Ecology, Ecosystem, World's Biomes, Biodiversity – Importance, Types and Conservation

References

1. B.S. Negi (1993) Physical Geography. S.J. Publication, Meerut
2. D.S.Lal (1998) Climatology. Chaitnya publishing house, Allahabad
3. K. Siddhartha (2001) Atmosphere, Weather and Climate. Kishalayya publication, New Delhi
4. R.N. Tikka (2002) Physical Geography. Kedarnath Ramnath & co, Meerut
5. William D. Thornbury (1997) Principle of Geomorphology. New Age International (Pvt Ltd.) New Delhi.

DEPARTMENT - MATHEMATICS

ELMM –01 - FUNDAMENTALS OF MATHEMATICS

(2 Credits)

Block-I: Number Theory: Natural numbers, integers, Real numbers, GCD, LCM, Prime numbers. Surds, Indices, Logarithms, Progressions, Arithmetic Progression, Geometric Progression, Harmonic Progression,

Block-II: Set Theory: Operations of Union, Intersection, Complementation. Relations & Functions: Types of relations One-one, onto, Many-one functions, graphs of functions.

Mathematical Logic: Propositions, logical connectives, Methods of proofs.

Books for Reference:

1. Kolman and Busby: Discrete Mathematics, PHI.
2. S. L. Loney: The Elements of Coordinate Geometry, London Macmillan & Co.
3. B. S. Grewal: Higher Engineering Mathematics, 36th Ed., Khanna Pub.
4. S. Lipschutz and M. Lipson: Theory and Problems of Discrete Mathematics. Schaum Series. 2nd Ed. Tata McGraw Hill.

DEPARTMENT - MICRO BIOLOGY

Microbial World and Microbial Diversity

- i. Introduction to microbial world, Physiochemical and biological characteristics; Characteristics of Acellular microorganisms (Viruses); Baltimore classification, general structure with special reference to viroids and prions.
- ii. Binomial Nomenclature, Whittaker's five kingdom and Carl Woese's three kingdom classification systems and their utility.
- iii. Difference between prokaryotic and eukaryotic microorganisms

- i. General characteristics of Cellular microorganisms, types - archaebacteria, eubacteria, wall-less forms - MLO (mycoplasma and spheroplasts) with emphasis on distribution and occurrence, morphology, mode of reproduction and economic importance.
- ii. Structure, reproduction and economic importance of Mycoplasma.
- i. General concept of Phytoplanktons and Zooplanktons. Characteristics, occurrence, thallus organization and classification of Algae.
- ii. Cyanobacteria - occurrence, thallus organization, cell ultra structure, reproduction and economic importance. Applications of algae in agriculture, industry, environment and food.
- i. Historical developments in the field of Mycology including significant contributions of eminent mycologists.
- ii. General characteristics of fungi including habitat, distribution, nutritional requirements, fungal cell ultra- structure, thallus organization and aggregation, mode of reproduction and
- iii. Economic importance of fungi with examples in agriculture, environment, Industry, medicine and food.
- i. General characteristics, structure, mode of reproduction and economic importance of Actinomycetes with special reference to its application in medicine and industry.
- ii. General characteristics, occurrence, classification structure, reproduction and economic importance of Protozoa.

References:

1. Singh, R.P. General Microbiology. Kalyani Publishers, New Delhi (2007).
2. Aneja, K.R. Experiments in Microbiology, Plant pathology and Biotechnology, Fourth edition, New Age International publishers.
3. Dubey, R.C. and Maheshwary, D.K. Text book of Microbiology. S. Chand and company (1999).
4. Powar, C.B. and Dagainawal, H.F. General Microbiology. Vol-I and Vol- II, Himalaya Publishing House.
5. Chakraborty P. A Textbook Of Microbiology. New central book Agency (2005).
6. Prescott, M.J., Harley, J.P. and Klein, D.A. Microbiology. 5th Edition WCB Mc Graw Hill, New York, (2002).
7. Tortora, G.J., Funke, B.R. and Case, C.L. Microbiology: An Introduction. Pearson Education, Singapore, (2004).
8. Alcom, I.E. Fundamentals of Microbiology. VI Edition, Jones and Bartlett Publishers. Sudbury. Massachusetts, (2001).
9. Black J.G. Microbiology-Principles and Explorations. John Wiley & Sons Inc. New York, (2002).
10. Pelczar, M.J. Chan ECS and Krieg NR, Microbiology McGraw-Hill.
11. Willey, Sherwood, Woolverton. Prescott, Harley, and Klein's Microbiology McGraw-Hill publication
12. Tortora, Funke, Case. Microbiology. Pearson Benjamin Cummings.
13. JACQUELYN G. BLACK. Microbiology Principles and explorations. JOHN WILEY & SONS, INC.
14. Madigan, Martinko, Bender, Buckley, Stahl. Brock Biology of Microorganisms. Pearson
15. Tom Besty, D.C Jim Koegh. Microbiology Demystified Mc GRAW-HILL.

DEPARTMENT -PHYSICS

MP-EL1: Mechanics

BLOCK-A

Unit-1: Laws of Motion: Frames of reference, Newton's Laws of motion, Dynamics of a system of particles, Centre of Mass.

Unit-2: Momentum and Energy: Conservation of momentum, Work and energy, Conservation of energy, Motion of rockets.

Unit-3: Rotational Motion: Angular velocity and angular momentum, Torque, Conservation of angular momentum.

Unit-4: Gravitation: Kepler's Laws (statement only), Newton's Law of gravitation, motion of a particle in a central force field, satellite in circular orbit and applications, geosynchronous orbits, weightlessness, basic idea of global positioning system (GPS).

BLOCK-B:

Unit-5: Oscillations: Simple harmonic motion, differential equation of SHM and its solutions, kinetic and potential energy, total energy and their time averages, damped oscillations.

Unit-6: Elasticity-1: Hooke's law, stress-strain diagram, elastic moduli-relation between elastic constants, Poisson's ratio, expression for Poisson's ratio in terms of elastic constants, work done in stretching and work done in twisting a wire.

Unit-7: Elasticity-2: Twisting couple on a cylinder - determination of rigidity modulus by static torsion, torsional pendulum-determination of rigidity modulus and moment of inertia - q, η and λ by Searles method.

Unit-8: Special Theory of Relativity: constancy of speed of light, postulates of special theory of relativity, length contraction, time dilation.

DEPARTMENT -PSYCHOLOGY

EL-1 Introduction to Psychology 2 Credits

Block 1: Introduction to Psychology-I

Unit 1: Introducing Psychology -Definition, Scope, and goals

Unit 2: Branches of Psychology

Unit 3: Motivation

Unit 4: Emotions

Block 2: Introduction to Psychology-II

Unit 5: Sensation, Attention and Perception

Unit 6: Learning, Memory and Forgetting

Unit 7: Intelligence

Unit 8: Personality

References:

1. Charles G.Morris. Albert A. Maisto Psychology an Introduction , Prentice Hall. New Jersey.
2. Feldman, A. R., Understanding Psychology IV th Ed, 1996, McGraw Hill, New Delhi.
3. Morgan, King, Weisz & Schopler, Introduction to Psychology-V11 Ed, 1993, Tata McGraw Hill, New Delhi.
4. Ernest R Hilgard, Richard C Atkinson , Rita L Atkinson Introduction to Psychology Oxford Publication, New Delhi.

DEPARTMENT : INFORMATION TECHNOLOGY

ELMIT –01: Green Computing

(2 Credits)

Course Objective: Study the concepts related to Green IT, Green devices and hardware along with software methods, green enterprise activities, managing the green IT and various laws, standards, protocols along with outlook of green IT.

BLOCK 1: Overview of Green Computing

Unit 1: Green IT Introduction, Overview and issues, Initiatives and standards, Pathways of Green computing, Benefits of Green IT, Environmental Impacts of IT

Unit 2: Green devices and hardware Environmental issues arising from electronic devices, life cycle of electronic devices, Hazards and E-waste Recycling, Going paperless, Hardware considerations, Greening information systems, Managing Green IT, 3Rs of Green IT, Thinking About Money-Saving Efforts

Unit 3: Green Data Centres and Associated Energy Challenges, Data Centre IT Infrastructure, Data Centre Facility Infrastructure: Implications for Energy Efficiency, IT Infrastructure Management, Green Data Storage, Storage Media Power Characteristics,

Unit 4: Green network and communications, objectives and challenges of green networking, Enterprise Green IT strategy, Approaching Green IT strategies, Business drivers and dimensions for Green IT strategies, Steps in Developing a Green IT Strategy, Metrics and Measurements in Green Strategies

BLOCK 2: Management of Green Computing

Unit 5: Sustainable Information Systems and Green Metrics, Sustainable IT Services, Sustainable IT Roadmap, Enterprise, Green IT Readiness, Readiness and Capability

Green Enterprises and the Role of IT, Organizational and Enterprise Greening, Information Systems in Greening Enterprises, Greening the Enterprise: IT Usage and Hardware,

Unit 6: Managing Green IT, Strategizing Green Initiatives, Implementation of Green IT, Regulating Green IT: Laws, Standards and Protocols,

Unit 7: Green Cloud Computing and Environmental Sustainability, Cloud Computing and Energy Usage Model: A Typical Example, Features of Clouds Enabling Green Computing, Green Cloud Architecture

Unit 8: Green IT: An Outlook, Awareness to Implementation, Green IT Trends, Greening by IT, A Seven-Step Approach to Creating Green IT Strategy

Text Books:

1. Gangadharan, G. R., & Murugesan, S. (2012). Harnessing Green IT: Principles and practices. Wiley Publication, ISBN: 9788126539680.
2. Smith, B. E. (2013). Green Computing: Tools and Techniques for Saving Energy, Money, and Resources. CRC Press.

DEPARTMENT -BOTANY

Plant-Microbe Interactions

Overview of plant microbes interactions,

Introduction, beneficial microbes, Rhizobium bacterium and nitrogen fixation, mycorrhizal fungi.

Plant pathogens, Agrobacterium tumefaciens and crown gall disease,

Mechanisms of plant disease mechanism, some bacterial plant diseases,

Plant viruses and mechanism of plant against viruses attacks.

Fungal pathogen- mechanism of plant disease,

Oomycete pathogens, Fungal mediated plant.

General concept of plant immunity,

PAMP-triggered immunity (PTI) and effectors-triggered immunity (ETI).

Transcription activator like effector and their role in virulence and disease resistance.

References

1. Lautenberg, B. (2015). Principles of Plant-Microbes Interactions: Microbes for sustainable Agriculture, Springer.
2. Stacey, G. and Keen, N. T. (1997). Plant-Microbes Interactions, Vol 4, . Springer.
3. Ramasamy, K, (2015). Plant Microbes Interactions, New India Publishing Agency.
4. Martin, F. and Kamoun, S. (2014). Effectors in Plant-Microbes Interactions 1st Edition, Wiley Blackwell.

DEPARTMENT -ZOOLOGY

MZO-IE-1: Parasites, Vectors & Communicable Diseases

Introduction to parasites.

Distribution, types, origin and evolution of parasites. Parasitism.

Types: Ecto-parasites, Endo-parasites and their adaptations.

Pathogenic micro-organisms, brief outline and classification of parasitic protozoan's: Entamoeba, Balantidium, Giardia, Trichomonus, Plasmodium, Leishmania and Trypanosoma and their diseases.

Control measures, diagnosis and therapy.

Pathogenic helminthes and vectors.

Etiology, epidemiology, pathogenesis, diagnosis, prevention and control of disease due to *Trichinella spiralis*, *Ancylostoma duodenale*, *Fasciola hepatica*, Schistosoma species.

Pathogenic Cestodes: Life cycle, treatment of diseases caused by Echinococcus, Hymenolepis and Diphyllbothrium. Scope and importance of vectors. Origin and evolution of vectors. Habitat, life cycle, pathogenicity of fleas, mites, ticks, lice's and mosquitoes.

Historical perspectives and scientists involved in the discovery of vectors and communicable Diseases.

Epidemiology, bio-ecology, life cycle of biological and mechanical Vectors. Vector-host-parasites interactions, Host-pathogen interaction, insects transmitting Bacteria and viruses.

Control and management of vectors and vector borne diseases

Control measures: cultural, chemical, biological, genetic and environmental Methods of vectors. Management of biological and mechanical vectors during Different seasons. Integrated Vector Control and Management.

Insecticide resistance in vectors, Drug resistance in pathogens.

Importance of education, awareness among public on communicable diseases and community participation. Covid-19 pandemics. Epidemiology of corona virus and its mutants. Vaccination against corona virus in India and other parts of the world.

DEPARTMENT –FOOD AND NUTRITION SCIENCE

ELMFNS- 01 FOOD PSYCHOLOGY

Credits: 2

BLOCK 1: FOOD: PREFERENCES AND CHOICES

Unit 1: Food: Physiological definition and significance, meaning of food, food classification, Food as statement of self-identity, Social interaction, Cultural identity

Unit 2: The Role of Food and Eating on Personality and Social Development: Psychology of eating, Food and emotion regulation, Food in daily living, Food Socialization, Food and control of others

Unit 3: Food Preferences and Fluctuations: Developmental Models, Cognitive Models & Psychophysiological Models, Physiology of food choice, Likes and Dislikes, acquired food preferences, Attitudes towards change, Food and sensory stimulus, Factors influencing eating behavior – (biological, environmental, individual, food characteristics, culture etc., Effect of eating on food selection and preferences, Understanding of the body and self – selection of the diet.

Unit 4: Food choices across lifespan and influence of society: The changing role of the senses in food choice and food intake across lifespan, Food in security and health across lifespan, Influence of media and advertisements, Digital platform and influence on food choices

BLOCK 2: EATING DISORDERS AND TREATMENTS

Unit 5: Mood, Emotions, food cravings and addictions: relation with food preferences, Connection between mood and eating, Biological and physiological aspects of food cravings, Stress and eating behavior, Food addiction - description, neurobiology of food addiction

Unit 6: Eating disorders and treatment: Anorexia nervosa, Bulimia nervosa and binge eating Disorder-Definition, Symptoms, believed causes, Classification, Risk factors, Common myths of eating disorders, Treatment & dietary management

Unit 7: Overeating, Obesity and Weight management: Definition, Prevalence, Classification of Body Mass Index, Types & patterns, Etiology, Physiological component, Fad diets, Risk factors, Treatment - Weight management (Behavior & Cognitive), Lifestyle modifications, Dietary modification - (calorie restricted diet)

Unit 8: You are what you eat- Approaches to change the dietary behavior: Multidisciplinary approach, Strategies to support healthy dietary behavior: Encouraging healthy eating,

Selection of food, Meal & portion size, developing education materials, Motivation & economics, Benefits of exercise, Stage classification for change, Barriers affecting the clinical outcome

REFERENCES:

1. [Smith John L.](#) (2002), The Psychology of Food and Eating (English, Hardcover, Smith John , Publisher: Palgrave MacmillanL.), ISBN: 9780333800201, 0333800206.
Alexandra W. Logue Oct 2017, The Psychology of Eating and Drinking Fourth Edition.

Annexure II

INTER- DISCIPLINARY COURSE

(Open Elective) for Second Semester

«sÁUÀ- PÀÀÀÀÀÀÀ

YAwæP-6: YÁæaÃ PÀ ʒlqÀ , Á»vÀzÀ Ew°Á, À

EL-2.1 (PÉærmí-2)

ÁèPi-38: Á»vÀ ZÀjvÉæAií GUÀ°ÀÄ ªÄvÄÄ «PÁ,

WÀIPÀ-149: Á»vÀzÀ GUÀVÀÄ, ÉAvÀtÀUÉ, GZÉYÄ±Ä

WÀIPÀ-150: YÁæaÃÉÄ YÀsvÀð ±Á, ÀÉÄ, Á»vÀi.

WÀIPÀ-151: YÁAYÄ YÀsvÀð AiíAUÄZÄ , Á»vÀä.

WÀIPÀ-152: PÀÉlqÀ , Á»vÀä ZÀjvÉæAií «sÁUÀPÀæVÄÄ.

ÁèPi-39: YÁæaÃ PÀ ʒlqÀ , Á»vÀ

WÀIPÀ-153: YÁæaÃÉÄ PÀÉlqÀ , Á»vÀä gÀsYÀUÀ¼ÄÄ; ZÄAYÄs, vÀZÄÉÄ gÀUÀ¼É, µÀlàç, ÁAUÀVÄÄ EvÁiç.

WÀIPÀ-154: YÁæaÃÉ PÀÉlqÀ , Á»vÀäz YAJPªÉUÀ¼ÄÄ;

ZÀjvÉæ-YÁAgÁt, zsAvÀÄð-PÁvÀäzsAvÀÄð, »A,É-C»A,É, vÀiAUÄð-zÉÄ², eEQP-DUÄ«ÄPÀ, vÀ, ÄÄPÀ-vÀtðPÀ
YÄæªsÁVÄÉ-YÄæwgÉsÄzsÄ.

WÀIPÀ-155: YÁæaÃÉÄ PÀÉlqÀ PÀ«-PÀÉw-PÁ°-zÉÄ±Ä-ªsÁUÄ 1.

YÁAYÄ, gÀÉl, YÉsÉÄl, 1É ZÁvÀçAqÀgÁAií, ÉÁUÀvÀVÄÄð 2ÉÉAií ZÁvÀçAlgÁAií, ÉÁUÄZÄÄzÄæ,
ÉÄAií, ÉÄÉÄ ZÄAUÄðAA°¼, §æ°²vÀ, PÀtðYÁgÀä, dÉl.

WÀIPÀ-156: YÁæaÃÉ PÀÉlqÀ PÀ«-PÀÉw-PÁ°-zÉÄ±Ä-ªsÁUÄ 2.

DAqÀAií, ÉÉÄ«ÄZÄÄzÄæ, gÀZÄæªsÁO YÄævÀÄÄR vÀZÄÉÁPÁgÀgÀÄ - eÉÄqÀgÀ zÁAvÀÄAií, §,AvÀt, CP
vÀÄ°ÄzÉÄ«, C°èvÀÄYÄªªÄ, ZÄÉl§,AvÀt, °Äj°ÀgÀ gÁWÀvÀÄPÀ, PÀAvÀiÁgÀvÀÄÄ, °Qè Ä±Ä YÄævÀÄÄR
QÄvÀðÉÁPÁgÀgÀÄ, ZÁvÀÄgÀÄ, PÀAvÀiÁgÀvÀÄÄÄQ, AvÀðdO, µÀqÀPÀej, ÄAa °ÉsÉÄlVÄ, ÉÄAdÄAqÀÄ,
gÀvÀßPÁgÀvÀtÄð, vÀÄÄzÄt, PÉAYÄÄÉÁgÁAiít.

YÁgÁ°ÄÄ±Äð ÄÄÄæAXÄUÄ¼ÄÄ

1. UÄw©AS : f.J, i. ²vÀgÀÄZÄæYÄ, ÉAUÄ¼ÄSgÄÄ «±Äé«zÄÄ°Aií, ÉAUÄ¼ÄSgÄÄ

2. PÁvÀä «°ÁgÀ : PÄVÉAYÄÄ, GzÄAiígÄ« YÄæPÄ±ÄÉl, vÉÄÉ, ÄsgÄÄ, 1969

3. AvÀÄUÄ PÀÉlqÀ , Á»vÀä ZÀjvÉæ : ÉAUÄ¼ÄSgÄÄ, «±Äé«zÄÄ°Aií ÉAUÄ¼ÄSgÄÄ, 2002

4. PÀÉlqÀ , Á»vÀä ZÀjvÉæ : P. vÉAPÀlgÁvÀÄYÄÄ, YÄæ, ÁgÁAUÄ, vÉÄÉ, ÄsgÄÄ «±Äé«zÄÄ°Aií, vÉÄÉ, ÄsgÄÄ

5. PÀÉÁðIP , ÄÄ, Älæw: zÉAvÀçqÀÄÄ, ±ÁgÀZÄ YÄæPÄ±ÄÉl, vÉÄÉ, ÄsgÄÄ, 1935

6. PÀÉlqÀ , Á»vÀä , ÄAUÄw : QÄwðÉÁX PÄVÀðPÉsÄn, vÄÄÉsÄ°ÀgÀ UÄæAXAvÀiÁÉl, zsÁgÀvÀqÀÄ

7. ±ÉÉä : J, i. gÄAUÄt, vÉÄÉ, ÄsgÄÄ «±Äé«zÄÄ°Aií, vÉÄÉ, ÄsgÄÄ, 1976

8. ±AvÀvÀiÁÉÄZÄ PÀÉlqÀ , Á»vÀä : ÄAYÄZÄPÁgÀÄ, f.J, i. ÉÄAiíPÀ, PÀÉlqÀ , Á»vÀä CPÁqÉ«Ä, ÉAUÄ¼ÄSgÄÄ

9. PÀÉlqÀ , Á»vÀäZÄ Ew°Á, Ä : gÄA. ²æÄ. vÄÄÄUÄ¼, PÉÄAZÄæ , Á»vÀä CPÁqÉ«Ä, ÉAvÀZÉ°ÄÄ, 1963

10. PÀÉlqÀ , Á»vÀä ZÀjvÉæ : gÄA. ²æÄ. vÄÄÄUÄ¼, GµÄ , Á»vÀ vÀiÁÉl, vÉÄÉ, ÄsgÄÄ, 1971

11. ©AS: ZÀzÀgÀAUÀ, ÀAvÀ^oÀE ¥ÀPÀ±ÀEÀ, VÉÊ, ÀsgÀÀ
12. PÀEÀqÀ, Á»VÀà ZÀjVÉæ, ÀA¥ÀÀIUÀÀÀ : PÀÁVÉA¥ÀÀ PÀEÀqÀ CzsÀÀiÀEÀ, ÀA, ÉI, VÉÊ, ÀsgÀÀ. «±Àé«zÀâ»[®]AiÀ, VÉÊ, ÀsgÀÀ, 1982
13. PÀEÀqÀ, Á»VÀàz ¥ÀæaÀEÀVÉ ¥ÀæzsÀEÀ, ÀA¥ÀzÀPÀqÀ, J. gÀAUÀ, Áé«À, eÉÀ. JZi.À. VÁvÀ, dEÀæAiÀ PÀEÀqÀ VÀiÁeÀ PÀEÀqÀ CzsÀÀiÀEÀ VÀÁVÀÀ, ÀA±ÉsÀzÀEÀ «sÀUÀ, PÀgÁVÀÀÀ», VÉÊ, ÀsgÀÀ, 2011
14. ¥ÀæaÀEÀ PÀEÀqÀ PÁVÀà AUgÀVÉ VÀÁVÀÀ ZÀ[®]EÀ ²À[®]VÉ : ¥ÀæzsÀEÀ, ÀA¥ÀzÀPÀqÀ, J. gÀAUÀ, Áé«À, eÉÀ. ²VÀgÁVÀÀAiÀ, dEÀæAiÀ PÀEÀqÀ VÀiÁeÀ PÀEÀqÀ CzsÀÀiÀEÀ VÀÁVÀÀ, ÀA±ÉsÀzÀEÀ «sÀUÀ, PÀgÁVÀÀÀ», VÉÊ, ÀsgÀÀ, 2012
15. PÀEÀqÀ PÉEÀr: ÀA¥ÀÀ 2, ¥Àæ, ÁgÀAUÀ, VÉÊ, ÀsgÀÀ «±Àé«zÀâ»[®]AiÀ, VÉÊ, ÀsgÀÀ, 2007

DEPARTMENT - HINDI

हहदी सिनेमा

- लसनेमा का उद्भव और ववकास
- मक च धचत्र और दादा साहब फाल्के यर्गु
- दसू रा पढाव, सवाक च धचत्र अथवा आ मआरा
- रंगीन लसनेमा का यर्गु
- सामाजक लसनेमा एक वववेचन
- ढ्मिण एवं सॉंस्कृतििक लसनेमा एक वववेचन
- राजनतििक लसनेमा एक वववेचन
- आथथक लसननमा एक वववेचन
- हास्य एवं व्यग्य लसनेमा एक वववेचन
- बा लसनेमा
- लसनेमा एवं सवेदनं
- लसनेमा एव भाषा-लशल्य लसनमा एवं गीयन
- लसनेमा एवं पात्र सयोजना
- लसनेमा एवं नतििक मल्य
- अनहू दतिि लसनेमा
- लसनेमा का तिि नात्मक अध्ययन
- क्रफल्म समीक्षा.....आहद

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- लसनेमा सादहत्य और समाज- प्रहं ाद अग्रवा, अनालमका प्रकाशन, नई ददल्ी
- कथंाकार कमेश्वर और दहदी लसनेमा- उष्णजव अग्रवा, राजकम प्रकाशन, नई ददल्ी
- बॉल पाठ ववमशणके ल ति जोशी, वार्ी प्रकाशन, नई ददल्ी
वड सदभ-
- फ शबक, फभनंथ आजमी, लशल्ययन, नई ददल्ी

- नाटक के सौ बरस, हरश्चंद्र अग्रवा और अत्जि पण्डित, लक्ष्मणायन, नई दिल्ली

DEPARTMENT - TELUGU

E. L. 2.1 TELUGU SAMSKRUTHI - SAMAJAM

Block - 1: ANDHRULA CHARITHRA - SAMSKRUTHI

Unit - 1: Samskruthi Vaisistyam

Unit - 2: Andhrula Charithra - Samskruthi Paraspara Prabhavam

Unit - 3: Andhrula kalalu

Unit - 4: Andhrula basha - samajam

Block - 2: ANDHRULA AACHARALU - SAMPRADHAYALU

Unit - 1: Andhrula Pandugalu

Unit - 2: Sthrela Nomulu - Vrathalu

Unit - 3: Andhrula Sangikaacharalu

Unit - 4: Andhrula Sampradhayalu

DEPARTMENT - HISTORY

OEL2.1 Social Reform Movements in Modern India

Objective: The course aims to trace the causes for the division of society in various sections and need for reformation. Further it explains age old social evils which crippled Indian society.

Pedagogy: personal contact programmes, audio video programmes, online lectures
Assignments, etc

Credits: 2. **Examination Duration:** 1 1/2 hours and Maximum Marks: 40

Course outcomes

After completing this course the students should be able to

- Understanding the contributions of the Raja ram Mohan Roy Dayananda Sarawathi towards the Indian modernity
- Analyse the Jyothibai pule Savithribai Pule Ambedkar's contributions to Indian social reform movements
- Evaluate the works of Sahu Maharaj and Krishna raja wadiyar IV patronage to social Justice.

Block-I

Unit : 1

Colonial Discovery of India : Orientalism, Anglicism, Evangelism-Understanding Indian Society, Meaning of Social Reform. The Concept of Modernity : Western Impact – Indian Response.

Unit : 2

Rajaram Mohan Roy and Brahmo Samaj, Dayananda Sarawathi and Arya Samaj- Nationalism and Society – Prarthana Samaj.

Unit : 3

Jyothi Ba- Phle and Savithri Ba Pule, Social and education reforms.

Unit : 4

Communalism, Eradication of Communalism, Muslim League, Wahhabi and Pan Islamism-Syed Ahmed and Aligarh Movement.

Block-II**Unit : 5**

The debate over the interpretation of Shastras – Ishwar Chandra Vidya Sagar - B.M.Malabari – Vivekananda –M.G. Ranade—Bal Gangadhar Tilak.

Unit :6

Dr. B.R.Ambedkar-, His views on Society, A caste and its annihilation, Religion and Economy, M.K.Gandhi- E.V.Ramswamy Periyar and Sri.Narayanguru, Ayyan kali.

Unit :7

The reformers – Kandukuri Veereshalingam – Pandit Shivanatha Shastry – Gopal Ganesh Agarkar-K.T.Telang-Maharma.

Unit :8

D.K.Karve, Maharaj Saiyyaji Rao Gaekwad of Baroda – Chatrapathi Shahu Maharaj of Kolhapur and Maharaja Krishnaraja Wodeyar IV of Mysore.

Suggested readings:

1. Nararajan : A Century of Social Reform in Indian.
2. Seetharam Singh : Nationalism and Social Reform in India
3. Dhananjaya Keer : Ambedkar, Life and Mission
4. Dhananjaya Keer :Mahatma Jyoti Rao Phule : Father of Social Revolution in India
5. Charless Heimsath R : Indian Nationalism and Hindu social Reform
6. A.S.Altekar : Position of Women In Hindu Civilization.
7. Gail Omvedt : Cultural Revolt in a Colonial Society – The Non – Brahmin Movements in Western India.
8. Gail Omvedt : Dalits and Democratic Revolution.
9. Ravindrakumar : Selected Documents of B.G.Tilak.
10. S. Ramkrishna : Social Reform Movements in Andhra
11. M.K.Gandhi : Women and Social Injustice.

«dAiñ YÉstZÄñ vÀAŠAQÀ (,ÄÄ), "sÁgÀvÀ GYÀRAQÀZÀ DzÄÄPÀ YÀsvÀÖ ZÄjvÉæ ««zs DAiÄiÄvñUÄVÄÄ - ÄÄYÄÄl-03, YÄæ,ÁgÄAUÄ, PÄLlQÄ «±Äé«ZÄiÄ@Aiñ, °ÄÄl.

DEPARTMENT - ECONOMICS

EL2.1: Institutions for International Development

- **Objective:** To enable the Students to understand the need and importance of various International Institutions.
- **Pedagogy:** A Combination of Lectures, Group Discussion, Assignments.

- **Credits:** 2 ; Examination Duration: 1½ and Maximum Marks: 50 (Internal Assessment Marks = 10 and Semester-end Examination =40)

Course Inputs

Block – I Economic Issues at Global and National Level

Unit – 1 Globalisation

Globalisation – Forces Driving Globalisation – Income Inequality – National Integrity – Impact on Labour – Multinational corporations – Global Business Environment – National Business Environment.

Unit – 2 Legal Issues of Business at Global and National Level

Political Risks – Legal System – Business Ethics – Centrally Planned Economy – Mixed Economy – Market Economy – Human Development

Unit – 3 International Trade

Importance – Volume – Direction – Composition – Trends – Theories of Trade - Mercantilism – Absolute Advantage – Comparative Advantage – International Product Life Cycle – Political, Economic and Cultural Motives behind Government Intervention.

Unit – 4 GATT and WTO

Importance – objectives – Functions - GATT and W.T.O – India and WTO.

Block – II Economic Integration and International Business Issues

Unit – 5 Regional Economic Integration

Meaning – Effects – Integration in Europe: European Union – Integration in Americans : North American Free Trade Agreement (NAFTA) – Latin American Integration Association (LAIA) – Free Trade Area of Americans (FTAA) and Transatlantic Economic Partnership.

Unit – 6 Integration in Asia

Association of Southern East Asian Nations (ASEAN) - Asia Pacific Economic Cooperation (APEC) – Integration in middle East : Gulf Cooperation Council (GCC) – BRICS – SAARC.

Unit – 7 International Financial Markets

International capital markets – Foreign Exchange markets – Currency Convertibility – International Monetary System.

Unit – 8 Issues in International Business

Trade War – Balance of Payment – Terrorism – Oil Crisis – Smuggling – Dumping
– Environmental Degradation – Exhibit of Nuclear power – Covid 19 and other
pandemics.

References:

01. Apte A.N. (2011) International Financial Management, Tata McGraw Hill Pub., Co. Ltd., New Delhi.
 02. Bhambari C.P, (1980) The World Bank and India, Vikas Publishing House, New Delhi.
 03. International Development Association, Annual Reports.
 04. International Finance Corporation, Annual Reports.
 05. International Monetary Fund, Annual Reports.
 06. World Bank, (1995) The Evolving Role of the World Bank in the First Half Century, Washington D.C.
 07. World Bank, World Bank in India, Washington, D.C. USA
 08. World Bank, World Development Reports, and Annual Reports.
- Palle Krishna Rao, (2005) WTO, Text and Cases, PSG Excel Series, New Delhi.

DEPARTMENT - POLITICAL SCIENCE

(OEL-I) Indian Constitution

Block-I

- | | |
|--------|---|
| Unit:1 | Framing of the Indian Constitution. |
| Unit:2 | Preamble and Salient Features of the Indian Constitution. |
| Unit:3 | Fundamental Rights and Duties. |
| Unit:4 | Directive Principles of the State Policy. |

Block-II

- | | |
|--------|--|
| Unit:5 | Union Legislature : Composition, Powers and Functions. |
| Unit:6 | Union Executive : President and Vice-President - Election, Powers and Functions, Prime ministers and Council of Minister - Powers and Functions. |
| Unit:7 | State Legislature : Composition, Powers and Functions, State Executive -Governor and Chief Minister. |
| Unit:8 | The Judiciary : Supreme Court and High Court - Composition, Jurisdiction and Functions. |

References:

1. Andre Beteille, 1965. Caste,class, and Power. Berkley: University of California Press.
2. Appadorai, A 1968. india: Studies In Social And Political Development 1947-1967. New Delhi: Aisa Publishing House.
3. Desai, A R. 2016. Social Background of Indian Nationalism. Los Angeles: Papular Prakashan.
4. Granville Austin, 2000. The Indian Constitution: Cornerstone of a Nation. Melbourne: Oxford University Press.
5. Hanson and Douglas, 1972. India`s Democracy. New York city: W W Norton & Co Inc.
6. Johari J C 1974. Indian Government and Politics. New Delhi: Vishal Publications.

7. Karunakaran, K.P 1964. Continuity and Change in Indian Politics. New Delhi: People's Pub. House.
8. Kochanek. A. 1968. The Congress Party of India: the Dynamics of a One-Party Democracy. New Jersey: Princeton University Press.
9. Morris Jones, 1967. The Government and Politics of India. London: Hutchinson University Library.
10. Myron Weiner, 1957. Party Politics in India. New Jersey: Princeton University Press.
11. Myron Weiner, 1967. Party Building in New Nation. Chicago: University of Chicago Press.
12. Palmer, N D 1971. The Indian Political System. Boston: Houghton Mifflin.
13. Partha Chatterjee, 1998. State and Politics in India. University of Michigan: Oxford University Press.
14. Pylee, M V 1960. Constitutional government in India. Bombay: Asia Pub. House.
15. Rajni Kothari, 1970. Politics in india. The University Of Michigan: Little Brown
16. Rajni Kothari, 1995. Caste in Indian Politics. Telangana: Orient Blackswan.
17. Venkatarangaiya: M Shiviah, 1975. Indian Federalism. New Delhi: Arnold-heinemann Publishers.
18. Zoya Hasan, 2000. The State in Indian Politics. Landon: Sage publication.

DEPARTMENT - SOCIOLOGY

Study of Indian Society -02 Credits

Course Description

Every science has its own classical theories, which stand as eternal in their explanatory power and prowess to transcend the time and region. This course intends to introduce the learners to the classical period of sociology which is not just a bundle of theories but a consistent tradition and formative period, even contemporary theories cannot eschew from being inspired. After studying this course, following learning outcomes can be expected.

Course Objectives

1. To appreciate the organizational framework of Indian society
2. To appreciate the aspects unity and diversity of Indian society
3. Examine the social issues in contemporary India

Learning Outcomes

Following outcomes are expected from the learners after successfully completing the course. Learner can/has

LOC-1: sociological insights about the social structural and organizational aspects of Indian society

LOC-2: present the changes in institutional framework of Indian society

LOC-3: recognize the causes for major social issues and present realistic remedies

Course Content

Block-1 Social Organizations

Unit-1 Unity and Diversity-Problem of Integration

Unit-2 Caste-Characteristics and Recent Changes

Unit-3 Marginalization-SC, ST, OBC and Minorities

Unit-4 Changes in Family and Concerns of the Aged

Block-2 Social Issues in Contemporary India

Unit-5 Environmental Sanitation and Ecological Degradation

Unit-6 Educated Unemployment and Employability

Unit-7 Social Unrest-Terrorism, Naxalism, Communalism and Corruption

Unit-8 Child Rights and Right to Education (RTE)

References

- Ahuja, Ram. 2002. Study of Social Problems. Jaipur & New Delhi: Rawat Publications
- Atal, Yogesh. 1979. The Changing Frontiers of Caste. National Publishing House: Delhi
- Beteille, Andre. 1971. Caste, Class and power. Berkeley: University of California.
- Beteille, Andre. 1974. Social Inequality, New Delhi: Oxford University Press.
- Beteille, Andre. 1992. Backward Classes in Contemporary India. New Delhi: Oxford University Press.
- Berreman, G.D. 1979. Caste and Other Inequalities: Essays in Inequality. Meerut: Folklore Institute.
- Dube, Leela. 1997. Women and Kinship, Comparative Perspectives on Gender Southern South Asia.
- Das, Veena. 2006. Oxford Handbook of Indian Sociology. New Delhi: Sage
- Dube, S C. 1990. Study of Indian Society. New Delhi: National Book Trust
- Jha, Hetukar. 2015. Sanitation in India. Delhi: Gyan Books.
- Karve, Iravathi. 1990. Kinship Organization in India.
- Pais, Richard. 2015. Sociology of Sanitation. Delhi: Kalpaz Publications.
- Pathak, Bindeshwar. 2015. Sociology of Sanitation. Delhi: Kalpaz Publications.
- Singer, Milton & Cohen, Bernards. 1996. Structure and change in Indian Society. Jaipur: Rawat
- Singh, Yogendra, Modernization of Indian Tradition. Jaipur & New Delhi: Rawat
- Srinivas, M N. 1995. Social Change in Modern India: Orient Blackswan
- Srinivas, M. N. 1962. Caste in Modern India and Other Essays. Asia Publishing House: Delhi

DEPARTMENT – ANCIENT HISTORY AND ARCHEOLOGY

AHA
OE 2.1

Cultural History of Hoysalas (OE)

Block - 1

Early Kings

Unit - 1 Archeological and Literary Sources

Unit - 2 Theories of Origin of Hoysalas – Sala – Nripakama – Ereyanga

Block - 2

Important Rulers

Unit - 3 Vishnuvardhana - VeeraNarasimha – I

Block - 3 Cultural Contributions

Unit-6 Hoysala Society – Religion – Education - literature

Block - 4 **Art and Architecture**

Unit - 7 Hoysala ArchitectureUnit – 8 Hoysala Art

1. Epigraphia Carnatica: Relevant Volumes
2. Derrett Duncan, M.J: The Hoysalas, 1957
3. Dhakey M.A: Encyclopedia of Indian Temple Architecture
4. Desai P.B: History of Karnataka
5. Foekema Gerard: A Complete Guide to Hoysala Temples
6. Gopinatha Rao T.A: Elements of Hindu Iconography, Vols
7. Kelleson Collyer: The Hoysala Artists – Their Identity Style
8. Krishna Murthy M.S: The Hoysala Art, Kuppam, 2007
9. Padmnabha K: Hoysala Sculptures : A cultural Study
10. Sheik Ali B (Ed): The Hoysala Dynasty , 1972
11. William Cohelo: The Hoysala Vamsha, 1950
12. Annual Reports of the Department of Archaeology, Mysore 1939 – 46
13. Settar S: Hoysala Temples
14. Marg: In Praise of Hoysala Art
15. Narasimhachar R; Lakshmidēvi Temple at Doddagaddhavalī
16. Shastri KAN: The Cholas, 17. Shastri KAN: History of South India

IDC - 2 HIGHER EDUCATION

BLOCK - 1 HIGHER EDUCATION – ORGANIZATION AND TEACHING – LEARNING

Unit-1 Higher Education

Unit-2 Teaching Learning in Higher Education – I

Unit-3 Teaching-Learning in Higher Education – II

Unit-4 Problems and Innovations in Higher Education

BLOCK - 2 HIGHER EDUCATION – SOCIO-PSYCHOLOGICAL AND MANAGEMENT DIMENSIONS

Unit-5 Socio-Psychological Background of College Students

Unit-6 Problems of College Students

Unit-7 Higher Education – Management Dimensions

References:

1. Shills Edward (1989) 'The modern university Liberal Democracy'.
2. Abraham, Abu (1988) The Penguin, Book of Indian cartoons, New Delhi.
3. Chandra, Bipan (1984) Communalism Modern India, New Delhi.
4. Chauhan S.S (1989) Innovations in Teaching Learning Process, New Delhi, Vikas.
5. Srivastva A.B and Sharma K.K (1985) Elementary Statistics in Psychology and Education, New Delhi, Sterling Publishers Pvt. Ltd.,

DEPARTMENT - COMMERCE

Elective Course – EL2.1: Entrepreneurship Development

- **Objective:** To enable the Students to understand about the different aspects of Entrepreneurship Development.
- **Pedagogy:** A Combination of Lectures, Group Discussion, Assignments.
- **Credits:** 2 ; Examination Duration: 1¹/₂ and Maximum Marks: 50 (Internal Assessment Marks = 10 and Semester-end Examination =40)

Course Inputs

Block I

- **Unit -1: Entrepreneur and Entrepreneurship:** Introduction - Evolution – Characteristics – Distinction between Entrepreneur and Manager – Functions – Types – Entrepreneur - Concept of Entrepreneurship – Growth of Entrepreneurship in India – Role of Entrepreneurship in Economic Development
- **Unit – 2: Women Entrepreneurship:** Introduction - Concept – Statistical Evidence – New Age Women – Functions – Growth - Problems – Recent trends in Development of Women Entrepreneurship.
- **Unit -3: Rural Entrepreneurship:** Introduction - Meaning – Need – Rural Industrialisation in Retrospect – Problems – Development of Rural Entrepreneurship – NGOs and Rural Entrepreneurship.
- **Unit -4: Conceptual Models of Entrepreneurship:** Introduction - Models of John Kao – Uday Pareek and Nadakarni– NISIET.

Block II

- **Unit – 5: Factors Affecting Entrepreneurial Growth And Competencies:** Introduction - Economic Factors – Non-Economic Factor – Government Actions - Entrepreneurial Competencies: Meaning – Major Entrepreneurial Competencies – Developing Competencies.
- **Unit -6: Entrepreneurial Motivation and Mobility:** Introduction - Motivation – Motivation Theories – Motivating Factors – Achievement Motivation – Factors Influencing Mobility – Occupational Mobility – Locational Mobility.
- **Unit – 7: Entrepreneurship Development Programmes:** Introduction - Need for EDPs - Objectives of EDPs – Course Contents and Curriculum of EDPs – Phases of EDPs – Evaluation of EDPs.

- **Unit -8: Institutional Support System for Entrepreneurship:** Introduction - DICs – SISIs – SIDCOs – NISIET – EDIT – NIESBU – TCOs- A Broad Overview of Central and State Level Financing Institutions.

Books Recommended for Reference

- a. Vasanth Desai, The Dynamics of Entrepreneurial Development and Management, Himalaya Publishing House.
- b. A. N Desai, Entrepreneurship Management, Ashish Publishing House.
- c. Chandra Prasanna, Project Preparation, Appraisal and Implementation, Tata McGraw Hill.
- d. Khanka, S.S, Entrepreneurial Development, S. Chand Publications.
- e. Prasanna Chandra, Projects: Planning, Analysis, Selection, Implementation and Review, Tata McGraw Hill.

DEPARTMENT - MANAGEMENT

E-COMMERCE

Credits: 2

Module 1: E-commerce and its Technological Aspects:

Overview of developments in Information Technology and Defining E-Commerce: The scope of E commerce, Electronic Market, Electronic Data Interchange, Internet Commerce, Benefits and limitations of E-Commerce, Produce a generic framework for E-Commerce, Architectural framework of Electronic Commerce, Web based E Commerce Architecture.

Module 2: Electronic Data Interchange: Benefits of EDI, EDI technology, EDI standards, EDI communications, EDI Implementation, EDI Agreements, EDI Security. Electronic Payment Systems, Need of Electronic Payment System: Study and examine the use of Electronic Payment system and the protocols used, Study Electronic Fund Transfer and secure electronic transaction protocol for credit card payment. Digital economy: Identify the methods of payments on the net – Electronic Cash, cheques and credit cards on the Internet.

References:

1. Elias. M. Awad, " Electronic Commerce", Prentice-Hall of India Pvt Ltd.
2. Ravi Kalakota, Andrew B. Whinston, "Electronic Commerce-A Manager's guide", Addison-Wesley.
3. Efraim Turban, Jae Lee, David King, H.Michael Chung, "Electronic Commerce–A Managerial Perspective", Addison-Wesley.
4. Elias M Award, "Electronic Commerce from Vision to Fulfilment", 3rd Edition, PHI, Judy Strauss, Adel El-Ansary, Raymond Frost, "E-Marketing", 3RDEdition, Pearson Education

DEPARTMENT - BIO CHEMISTRY

Basics of Bioorganic chemistry for Biology graduates.

Introduction to Organic chemistry: Classification of organic compounds, unique characteristics, IUPAC nomenclature of organic compounds (including bifunctional).

Reaction mechanisms: Classification of organic reactions: substitution, addition, elimination and rearrangement with one example for each. Concepts of the following – carbon anions, carbon cations, free radicals, carbenes, nucleophiles and electrophiles.

Cycloalkanes: Reactivities and relative stability, Bayer's strain theory. Sachse-Mohr theory. Boat and chair form of cycloalkanes. Axial and equatorial bonds.

Arenes: Structure of Benzene—resonance and molecular orbital theories. Aromaticity. Mechanism of Nitration and Friedel-Craft's reaction. Electronic interpretation of the orienting influence of substituents in the electrophilic substitution of Toluene, Chlorobenzene, Nitrobenzene and Phenol. Polynuclear hydrocarbons—Resonance structures of Naphthalene, Anthracene and phenanthrene.

S_N1 and S_N2 reactions, mechanism with an example for each. Concept of elimination reactions. Example –n-butyl chloride.

Alcohols: Classification, monohydric, alcohols-distinguishing reactions for primary, secondary and tertiary alcohols.

Trihydric alcohols: Glycerol, Properties, (KHSO₄, HNO₃, Oxalic acid and HI)

Phenols: Acidity of phenols, Effect of substitution on acidity

Stereochemistry: Stereoisomerism, types, Fischer-projection formulae, asymmetric carbon atom, molecular dissymmetry, chirality, optical isomerism: ex. Glyceraldehyde, Lactic acid, Tartaric acid. Nomenclature of enantiomers. D- and L- system, Racemisation and resolution.

Heterogeneous and Homogeneous hydrogenation of oils.

Selected References:

1. Basic Principles of Organic Chemistry, Roberts and Caserio, W. A. Benjamin, Inc. (1964).
2. Organic Chemistry, Morrison and Boyd, Allyn and Bacon Inc (1992).
3. Principles of Inorganic chemistry by Cotton & Wilkinson, Wiley (1999).
4. Textbook of Organic chemistry by Ahluwalia V K & Madhuri G Narosa publications (2001).
5. Physical chemistry by Castellan G W, Narosa Publications (2004).
6. Physical chemistry by Chakraborty D K, Narosa Publications (2004).

DEPARTMENT - BIOTECHNOLOGY

MBT EL-2 FUNDAMENTAL OF BIOTECHNOLOGY

Scope and Introduction to Biotechnology History & Introduction to Biotechnology What is Biotechnology? Definition of Biotechnology, Traditional and Modern Biotechnology, Branches of Biotechnology

Plant, Animal Biotechnology, Marine Biotechnology, Agriculture, Healthcare, Industrial Biotechnology, Pharmaceutical Biotechnology, Environmental Biotechnology.

Applications Biotechnology Applications of Biotechnology in Agriculture : GM Food, GM Papaya, GM Tomato, Fungal and Insect Resistant Plants BT Crops, BT Cotton and BT Brinjal Pros and Cons Biotechnological applications in Crop and Livestock Improvements Modifications in Plant Quality Golden Rice, Molecular Pharming, Plant Based Vaccines Ethics in Biotechnology and IPR 15 lectures

Food and Fermentation Biotechnology Food Biotechnology Biotechnological applications in enhancement of Food Quality Unit Operation in Food Processing Quality Factors in Pre processed Food Deterioration and its Control Rheology of Food Products Microbial role in food products Yeast, Bacterial and other Microorganisms based process and products Fermentation Technology Definition, Applications of Fermentation Technology Microbial Fermentations Overview of Industrial Production of Chemicals (Acetic Acid, Citric Acid and Ethanol), Antibiotics, Enzymes and Beverages

Molecular Biology - Replication DNA Replication in Prokaryotes and Eukaryotes Semi-conservative DNA replication, DNA Polymerases and its role, E.coli Chromosome Replication, Bidirectional Replication of Circular DNA molecules. Rolling Circle Replication, DNA Replication in Eukaryotes DNA Recombination – Holliday Model for Recombination Transformation

Mutation and DNA Repair Definition and Types of Mutations. Mutagenesis and Mutagens. (Examples of Physical, Chemical and Biological Mutagens) Types of Point Mutations, DNA REPAIR Photo reversal, Base Excision Repair, Nucleotide Excision Repair, Mismatch Repair, SOS Repair and Recombination Repair.

Genetic Engineering Experimental evidences for DNA and RNA as Genetic Material. Genetic Engineering in Ecoli and other Prokaryotes, Yeast, Fungi and Mammalian Cells Cloning Vectors- Plasmids (pBR 322, pUC) Vectors for Plant and Animal Cells, Shuttle Vectors, YAC Vectors, Expression Vectors Enzymes- DNA Polymerases, Restriction Endonucleases, Ligases, Reverse Transcriptase's, Nucleases, Terminal Transferees, Phosphatases Isolation and Purification of DNA (Genomic, Plasmid) and RNA,, Identification of Recombinant Clones

DEPARTMENT - CHEMISTRY

Block-1	Title: Physical parameters of molecules
Unit-1	Thermodynamics: First and second laws of thermodynamics. Concept of entropy and free energy, entropy as a measure of unavailable energy. Entropy and free energy changes and spontaneity of process.
Unit-2	Chemical kinetics: Rate and order of reaction. Factor affecting the rate of reaction. And determination Order of reaction. Energy of activation and its determination. Brief account of collision and activated complex theories.
Unit-3	Ionic equilibria: pH scale, buffer solutions, calculation of pH of buffer solutions, buffer capacity and buffer index, buffer mixtures.

Unit-4	Electrochemistry: Electrolytic conductance, specific, equivalent and molar conductance, ionic mobility and transference number, factors affecting the electrolytic conductance, Arrhenius theory of strong and weak electrolytes, assumptions of DebyeHuckel theory of strong electrolytes.
Block-2	Title: Organic molecules
Unit-5	Introduction to organic chemistry, atomic orbitals, sigma and pi bond formation-molecular orbital (MO) method, sp, sp ² and sp ³ hybridization, bond length, bond dissociation energies and bond angles
Unit-6	Electronegativity and polarity of the bonds. Classifications and reactions of organic compounds (with examples).
Unit-7	Biological importance of natural products: Amino acids, proteins, carbohydrates (cellulose, starch, glycogen), lipids (fats and oils, phospholipids), nucleic acids, steroids, alkaloids, vitamins, flavonoids.
Unit-8	Applications of synthetic products: Dyes, drugs, polymers (plastics), soaps and detergents, pesticides and pheromones.

DEPARTMENT – CLINICAL NUTRITION AND DIETETICS

OEL - 2: NUTRACEUTICALS AND HEALTH FOODS

2 Credits

BLOCK 1. NUTRACEUTICALS:

Unit - 1: Introduction to Nutraceutical

Unit - 2: Use of Nutraceuticals in Traditional Health Sciences

Unit – 3: Functional Foods

Unit – 4: Development of Nutraceutical and Functional Foods

BLOCK 2: FUNCTIONAL FOODS AND NUTRACEUTICALS OF PLANT, ANIMAL AND MIRCIBIAL ORIGIN

Unit - 5: Prebiotics and Probiotics

Unit - 6: Bio Active Peptides and Phyto- Chemicals

Unit - 7: Fats and Oils- Omega 3 Fatty Acids:

Unit - 8: Sugar Substitutes / Sweeteners

REFERENCES:

- Tai Hu Guan, (2018), text book of Nutraceuticals and Health, Scitus Academics Publisher, Wilmington DE 19804, United States of America.
- Wildman REC, (2016), Handbook of Nutraceuticals and Functional Foods, 2nd edition, CRC Press publishers, Boca Raton, Florida (USA).
- Athapol Noomhorm, Imran Ahmad, Anil Kumar Anal (2014), Functional Foods and Dietary Supplements Processing, Effects and Health Benefits, first edition, published by John Wiley & Sons, Ltd. UK 111 River Street, Hoboken, NJ 07030-5774, USA
- Wildman REC, (2001) Handbook of Nutraceutical and Functional Foods, CRC Press, USA. Ghosh D et al, (2012) Innovations in Healthy and Functional Foods, CRC Press, USA. Pathak YV (2011) Handbook of nutraceuticals Volume 2, CRC Press, USA.

DEPARTMENT - COMPUTER SCIENCE

ELMCS- 02: E -Commerce

BLOCK-1

UNIT-1: Overview of developments in Information Technology and Defining E-Commerce: The scope of E commerce, Electronic Market, Electronic Data Interchange, Internet Commerce, Benefits and limitations of E-Commerce, Produce a generic framework for E-Commerce,

UNIT-2: Architectural framework of Electronic Commerce, Web based E Commerce Architecture. Consumer Oriented E Commerce E-Retailing: Traditional retailing and e retailing, Benefits of e retailing,

UNIT-3: Key success factors, Models of e retailing, Features of e retailing. E services: Categories of e-services, Web-enabled services, matchmaking services,

UNIT-4: Information-selling on the web, e entertainment, Auctions and other specialized services. Business to Business Electronic Commerce

BLOCK-2

UNIT-5: Electronic Data Interchange: Benefits of EDI, EDI technology, EDI standards, EDI communications, EDI Implementation, EDI Agreements, EDI Security. Electronic Payment Systems, Need of Electronic Payment System:

UNIT-6: Study and examine the use of Electronic Payment system and the protocols used, Study Electronic Fund Transfer and secure electronic transaction protocol for credit card payment. Digital economy: Identify the methods of payments on the net – Electronic Cash, cheques and credit cards on the Internet.

UNIT-7: Security in E Commerce Threats in Computer Systems: Virus, Cyber Crime Network Security: Encryption, Protecting Web server with a Firewall, Firewall and the Security Policy, Network Firewalls and Application Firewalls, Proxy Server. Issues in E Commerce Understanding Ethical,

UNIT-8: Social and Political issues in E-Commerce: A model for Organizing the issues, Basic Ethical Concepts, Analyzing Ethical Dilemmas, Candidate Ethical Principles Privacy and Information Rights: Information collected at E-Commerce Websites, The Concept of Privacy, Legal protections Intellectual Property Rights: Types of Intellectual Property protection, Governance.

References:

1. Elias. M. Awad, " Electronic Commerce", Prentice-Hall of India Pvt Ltd.
2. RaviKalakota, Andrew B. Whinston, "Electronic Commerce-A Manager's guide", Addison-Wesley.
3. Efraim Turban, Jae Lee, David King, H.Michael Chung, "Electronic Commerce–A ManagerialPerspective", Addison-Wesley.
4. Elias M Award, "Electronic Commerce from Vision to Fulfilment", 3rd Edition, PHI, Judy Strauss, Adel
5. El-Ansary, Raymond Frost, "E-Marketing", 3RDEdition, Pearson Education.

DEPARTMENT - GEOGRAPHY

ELMG –02 Regional Geography of Karnataka (Credits – 2)

Block-1

Physical setting - Location, Administrative divisions, Geology, Physiographic divisions of the Karnataka; Climate and Rivers; Soils and Vegetation; Irrigation in Karnataka, Major Multipurpose River Valley Projects, Major water problems and Issues - Yetthinahole, Linganamakki, Mekedatu, Krishna-Cauvery valley-linking Rivers.

Block-2

Agriculture - Major of Crops: Rice, Jowar, Ragi, Wheat, Oil seeds, Sugarcane, Cotton, Tobacco and Coffee; Minerals Resources - Iron ore, Manganese, Bauxite, Copper, Gold; Major Power Projects - Hydel, Thermal and Atomic Energy power plants; Industries - Cotton Textile, Silk Textile, Sugar, Iron and Steel, Cement and Paper industries, Industrial Regions of Karnataka; Transportation - Roads, Railway, Water way, Ports/Harbors and Airways; Population - growth, distribution and density

References:

1. Directorate of Information and Tourism, Government of KarnatakaKarnataka State Gazetteer
2. Mallappa, P., (2014) Geography of Karnataka, Chethana book publishers, Mysuru
3. N.B.K Reddy & G.S. Murthy, (1967) Regional Geography of Mysore State
4. R.P. Misra, (1973) Geography of Mysore
5. Ranganath, (2018) Geography of Karnataka, Mysore Book House, Mysuru

DEPARTMENT - MATHEMATICS

Combinatorics and Graph Theory (ELMM –02)

2 Credits

Block-I: Permutations and Combinations, Pigeon-hole principle, Principle of inclusion and exclusion.

Block-II: Graphs, Vertices of graphs, Walks and connectedness, Degrees, Operations on graphs, Blocks – Cutpoints, bridges, Block graphs and Cutpoint graphs. Trees - Elementary properties of trees,

Books for Reference:

1. C. L. Liu – Elements of Discrete Mathematics, McGraw-Hill, 1986.
2. Kenneth H. Rosen – Discrete Mathematics and its Applications, McGraw-Hill, 2002.
3. F. Harary – Graph Theory, Addition Wesley Reading Mass, 1969.
4. N. Deo – Graph Theory With Applications to Engineering and Computer Science, Prentice Hall of India, 1987.
5. K. R. Parthasarathy – Basic Graph Theory, Tata McGraw-Hill, New Delhi, 1994.
6. G. Chartand and L. Lesniak – Graphs and Diagrams, wadsworth and Brooks, 2nd Ed.,
7. Clark and D. A. Holton – A First Look at Graph Theory, Allied publishers.
8. D. B. West – Introduction to Graph Theory, Pearson Education Inc.,2001, 2nd Ed.,
9. J. A. Bondy and U. S. R. Murthy – Graph Theory with applications, Elsevier, 1976.

DEPARTMENT - MICROBIOLOGY

Microbes in Sustainable Agriculture and Development

- i. Soil Microbiology: Soil as Microbial Habitat, Soil profile and properties,
- ii. Soil formation, Diversity and distribution of microorganisms in soil.
- iii. Microbial Activity in Soil and Green House Gases- Carbon dioxide, methane, nitrous oxide, nitric oxide – production and control
- i. Mineralization of Organic & Inorganic Matter in Soil: Mineralization of cellulose, hemicelluloses, lignocelluloses, lignin and humus, phosphate, nitrate, silica, potassium
- ii. Microbial Control of Soil Borne Plant Pathogens: Biocontrol mechanisms and ways, Microorganisms used as biocontrol agents against Microbial plant pathogens, Insects, Weeds.
- iii. Biofertilization, Phytostimulation,
- iv. Bioinsecticides: Plant growth promoting bacteria, biofertilizers – symbiotic (Bradyrhizobium, Rhizobium, Frankia),
- v. Non Symbiotic (Azospirillum, Azotobacter, Mycorrhizae, MHBs, Phosphatesolubilizers,algae),
- vi. Novel combination of microbes as biofertilizers, PGPRs
- i. Secondary Agriculture Biotechnology: Biotech feed, Silage, Biomanure, biogas, biofuels – advantages and processing parameters.
- ii. GM crops: Advantages, social and environmental aspects, Bt crops, golden rice, transgenic animals.

References:

1. Eldor A. Paul. Soil Microbiology. Ecology and Biochemistry. VI Edition: Academic Press, (2007).
2. Eugene L. Madsen. Environmental Microbiology: From Genomes to Biogeochemistry. I Edition, Wiley-Blackwell Publishing. (2008).
3. Agrios, G.N. Plant pathology. Harcourt Asia Pvt. Ltd. (2000).
4. Buchanan. B.B., Gruissem, W. and Jones, R.L Biochemistry and Molecular Biology of Plants. I.K. International Pvt. Ltd. (2000).
5. Mehrotra R S and Ashok Agrawal. Plant Pathology. Tata Mc Graw Hill ,6th reprint (2006).
6. K. S. Bilgrami, H. C. Dube. A textbook of modern pathology. 6th Edition, Vani Educational Books, a division of Vikas, (1984).
7. K.R. Aneja .Experiments in Microbiology, Plant Pathology and Biotechnology . New Age

Publications.2017

DEPARTMENT - PHYSICS

MP-EL2: Waves and Optics

BLOCK-A:

Unit-1: Superposition of Two Collinear Harmonic oscillations: linearity & superposition principle. (i) Oscillations having equal frequencies and (ii) oscillations having different frequencies (Beats).

Unit-2: Waves Motion- General: Transverse waves on a string, travelling and standing waves on a string, normal modes of a string, group velocity, phase velocity, plane waves, Spherical waves, wave intensity.

Unit-3: Fluids: Surface tension: synclastic and anticlastic surface - excess of pressure - application to spherical and cylindrical drops and bubbles. viscosity - rate flow of liquid in a capillary tube - Poiseuille's formula - determination of coefficient of viscosity of a liquid.

Unit-4: Sound: Simple harmonic motion - forced vibrations and resonance intensity and loudness of sound, intensity levels, musical notes, musical scale, acoustics of buildings: reverberation and time of reverberation, absorption coefficient, Sabine's formula - measurement of reverberation time.

BLOCK-B:

Unit-5: Wave Optics: electromagnetic nature of light, definition and properties of wave front, Huygen's Principle.

Unit-6: Interference: Interference: division of amplitude and division of wavefront. Young's double slit experiment, interference in thin films: parallel and wedge-shaped films, Newton's Rings: measurement of wavelength and refractive index.

Unit-7: Diffraction: Fraunhofer diffraction- single slit and double Slit, multiple slits and diffraction grating, Fresnel diffraction: half-period zones, zone plate, Fresnel

diffraction pattern of a straight edge, a slit and a wire using half-period zone analysis.

Unit-8: Polarization: Transverse nature of light waves, plane polarized light – production and analysis, circular and elliptical polarization.

DEPARTMENT -PSYCHOLOGY

EL-2 Psychology in Everyday Life 2 Credits

Block 1: Applications of Psychology-I

Unit 1: Psychology as a Profession

Unit 2: Memory Improving Techniques

Unit 3: Stress and Emotional Management

Unit 4: Personality Development

Block 2: Applications of Psychology-II

Unit 5: Psychology in Educational Settings

Unit 6: Psychology in Health Setting

Unit 7: Psychology in Organizational Setting

Unit 8: Adjustment to Family and Work Place

References:

1. Charles G.Morris. Albert A. Maisto Psychology an Introduction , Prentice Hall. New Jersey.
2. Feldman, A. R., Understanding Psychology IV th Ed, 1996, McGraw Hill, New Delhi.
3. Morgan, King, Weisz & Schopler, Introduction to Psychology-V11 Ed, 1993, Tata McGraw Hill, New Delhi.
4. Ernest R Hilgard, Richard C Atkinson , Rita L Atkinson Introduction to Psychology Oxford Publication, New Delhi.

DEPARTMENT -INFORMATION TECHNOLOGY

ELMIT –02 E-Commerce (2 Credits)

Block 1: Fundamentals of E-commerce

Unit 1 : Introduction to E-commerce

What Is E-commerce? The Difference Between E-commerce and E-business, Technological Building Blocks Underlying E-commerce: the Internet, Web, and Mobile Platform, Major Trends in E-commerce, Unique Features of E-commerce Technology

Unit 2 : Types of E-commerce:

Business-to-Consumer (B2C) E-commerce, Business-to-Business (B2B) E-commerce. Consumer-to-Consumer (C2C) E-commerce, Mobile E-commerce (M-commerce), Social E-commerce, Local E-commerce E-commerce: A Brief History, Understanding E-commerce: Organizing Themes, Academic Disciplines Concerned with E-commerce

Unit 3 : E-Commerce Infrastructure

The Internet, Technology Background , Internet – Key Technology concepts, TCP/IP, IP addresses, Domain names, DNS and URLs, Client Server Computing, Cloud computing model, Mobile platform

Unit 4 : Internet and Web

Hypertext, HTML, XML, Web servers and clients, Web browsers, Communication tools – E mail, messaging apps, online message boards, Internet Telephony

Block 2: Construction of E-commerce presence

Unit 5: E-commerce presence – Building an e-commerce idea, Systematic approach, Choosing software and hardware, E-commerce site tools

Unit 6: E-commerce security E-commerce System environment, Security threats, Technology solutions

Unit 7: E-commerce payment systems : Management policies, E-commerce payment systems, Electronic billing presentment and payment

Unit 8: E-commerce Business Strategies : E-commerce business models, Major B2C Business models, B2B Business models,

References:

1. Laudon, Kenneth C., and Carol Guercio Traver. *E-Commerce 2020-2021*. Pearson, 2020.
2. Laudon, Kenneth C., and Carol Guercio Traver. *E-commerce Essentials*. Pearson, 2014

DEPARTMENT - BOTANY

Plant Diversity and Human Welfare

Plant Diversity and its Scope Levels of biodiversity: Genetic, Species and Ecosystem; Agrobiodiversity and cultivated plant taxa and related wild taxa.

Values and uses of Biodiversity, Methodologies for valuation, Ethical and aesthetic values, Uses of plants; Ecosystem services.

Loss of Biodiversity Loss of biodiversity- causes and implications, Hot spots of biodiversity, extinction of species, projected scenario for biodiversity loss.

Management of Plant Biodiversity Organizations associated with biodiversity management, IUCN, UNEP, WWF, UNESCO, NBPGR; Methodology for execution;

Biodiversity legislation; Information management and communication.

Conservation of Biodiversity, Role of Plants in Relation to Human Welfare Conservation of genetic, species and ecosystem diversity,

In situ and ex situ conservation strategies, India's biodiversity and its conservation Social approaches to conservation,

Biodiversity awareness programmes, Sustainable development.

Importance of forestry their utilization and commercial aspects; Avenue trees; Ornamental plants of India; Alcoholic beverages; Fruits and nuts; Wood and its uses; their commercial importance.

References

1. Krishnamurthy, K.V. (2004). An Advanced Text Book of Biodiversity - Principles and Practices. Oxford and IBH Publications Co. Pvt. Ltd. New Delhi
2. Singh, J.S., Singh, S.P. and Gupta, S. (2006). Ecology Environment and Resource Conservation. Anamaya Publications, New Delhi, India.
3. Reddy, K.V. and Veeraiah, S. (2010). Biodiversity and Plant Resources. Aavishkar publication, New Delhi.
4. Heywood, V. H. and Watson, R. T. (1995). Global biodiversity and Assessment. Cambridge University Press.

DEPARTMENT –FOOD AND NUTRITION SCIENCE

OEL-2: NUTRITIONAL MANAGEMENT IN DISASTER CONDITIONS

BLOCK- I: NATURAL / MANMADE DISASTERS

Unit-1: Emergency Situations-Famine, Drought, Flood, Earthquake, Cyclone, War, Civil and Political Emergencies.

Unit-2: Nutrition in Emergencies, Nutritional Problems and Communicable Diseases.

Unit-3: Feeding Programs during Emergencies.

Unit-4: Assessment and monitoring of Nutritional Status and relief measures during emergencies.

BLOCK- I: NUTRITIONAL RELIEF AND REHABILITATION

Unit-5: Assessment of Food needs in emergency situations, Food Distribution Strategy, Local food rehabilitation.

Unit-6: Special Foods/ Rations for Nutritional Relief, Organizations for Mass Feeding/ Food Distribution, and Supplementary Feeding.

Unit-7: Transportation, Storage, Feeding Centres, Sanitation, Hygiene and Identifying Reaching the Vulnerable Group.

Unit-8: Public Nutrition Approach to Tackle Nutritional and Health Problems in Emergencies, food security.

REFERENCES:

- Jaspars, S. & Young, H. (1996), General Food Distribution in Emergencies: from Nutritional Needs to Political Priorities. Good Practice Review 3. 1996. Relief and Rehabilitation Network, Overseas Development Institute. London.
- Young H., Jaspars S., Brown R., Frize J. & Khogali H (2001), Food Security and Assessments in Emergencies: A Livelihoods Approach. Humanitarian Practice Network, Overseas Development Institute. London.