

COURSE NAME	SUBJECT NAME	(COURSE OBJECTIVES)
BA ENGLISH		
	22UENGC13: LITERARY GENRES AND FORMS	1) Introduce the variety of genres and make students familiar with them 2) Help students to get a comprehensive understanding of different forms of literature 3) Develop expertise in understanding specific genres and their characteristics 4) Help the students apply their knowledge of literary forms in speaking, reading, and writing Help students appreciate the scope and richness of literature and its varied forms
	22UENGC14: SYMPHONY OF VERSE – I	1) Familiarize the historical phases of English poetry 2) Provide glimpses of writers and texts pivotal to an understanding of Literature 3) Highlight the development of poetry across time 4) Enable them to recognize poetry from a variety of cultures, languages, and historic periods Make them understand and appreciate poetry as a literary form
	22UENGA15: SOCIAL HISTORY OF ENGLAND I	1. Make the students understand the social, political, cultural, and religious events that shaped the history of England. 2. Make the students aware of the different rulers who ruled over different periods of English history. 3. Make students understand how party system came into existence. 4. Make them understand the evolution of society in England. Make them aware of the religious transformation that England witnessed
	22UENGS16: ENGLISH FOR SECRETARIAL PRACTICE	1) Make the students grasp the strategies involved in developing effective communication. 2) Augment students' language proficiency to meet the demands of the job market. 3) Help students develop management skills and enhance their personality. 4) Empower students' skills and personality. Students get a chance to uplift their skills and gain knowledge in handling correspondence independently
	22UENGC23: HARMONY OF PROSE I	1) Introduce the learners to the various themes and techniques explored by popular prose writers 2) Conceive ideas about political and social situations of different periods 3) Help the students acquire the social and ethical values through the study of prose 4) Introduce the historical, cultural, and social contexts in English prose Enable the students to acquire an adequate exposure to important prose writers of the English language
	22UENGC24 - ADVANCED ENGLISH GRAMMAR	1) Enable students to understand the rudiments of English Grammar. 2) Learners acquire a proper idea of Grammar and Linguistic conventions.

3) Obtain a distinct knowledge of how to use Grammar impeccably.

4) Enable them to write clearly, accurately and coherently.

Enhance their confidence in using English for communication

1. Make the students learn about the economic, social, religious, and cultural life of the people of England from the 18th century until the present time so that they could understand and appreciate British literature.

22UENGA25: SOCIAL HISTORY OF ENGLAND II

2. Enable the students to learn about the social revolutions and political reforms in England.

3. Help students to gain knowledge of the different movements, wars, and their impact on England and English literature.

4. Provide students the historical and social background of British empire in different centuries.

Teach them about the important political activities that influenced English literature.

22UENGS26: EFFECTIVE BUSINESS WRITING

1) To make students acquire basic business writing skills.

2) To cater to the needs of intended audience.

3) To produce more focused, polished and effective business documents.

4) To teach them how to maintain consistency in writing

5) To know how to communicate ideas for maximum positive impact

22UENGC33: SYMPHONY OF VERSE – II

1. Make the students learn how to appreciate poems by writers from different nations

2. Make the students understand the various poetic forms

3. Make the students identify the uniqueness of the modern British poetry

4. Make the students understand the major characteristics of the American poetry

Make the students appreciate the peculiar themes and forms of the Indian poetry

22UENGC34: HARMONY OF PROSE II

1. Introduce the learners to the various themes and techniques used by prose writers in English

2. Make the students understand different kinds of essays

3. Introduce the learners to the forms and themes of Indian English prose

4. Make the students aware of American prose writers and their styles

5. Make the students appreciate Romantic and Victorian Prose writers

22UENGA35: HISTORY OF ENGLISH LITERATURE I

1. Introduce the students to the salient features of the different ages and the writers who shaped British Literature.

2. Make the students recognize the various writers who excelled in British Literature from Old English period to the Age of Pope.

3. Familiarize the students with the various social and political conditions from the Old English to the Age of Pope.

4. Enable the students to know the significance and difference of Old English Literature from the rest of other literary periods.

22UENGE36-1: INDIAN LITERATURE IN ENGLISH TRANSLATION

Help the students understand the transitions of various literary movements

1. To introduce to the students the literature of their own region in English translation.
2. To introduce to them the literature of other Indian regions in English translation.
3. To make them understand the cultural differences embedded in the regional literature.
4. To help students understand the need for promoting indigenous literature through translation.

To enrich the students with the great wealth of literatures and cultures of India

1. Help students appreciate the Eurocentric method of historical enquiry for the study of non-western people and their relation to Western Europe.

22UENGE36-2: SUBALTERN LITERATURE

2. Enable students to understand the society through conditions of subordination of people belonging to different castes, classes, age, gender, race etc.

3. Uncover the voice of the marginalized people that had not been heard before.

4. Enable students to critically analyze the theme of hegemony in the works of various subaltern literatures.

Primary focus is to recover, examine the agency of the underprivileged within the networks of capitalism colonialism, and nationalism

1. To introduce students to the fascinating world of folklore, its history and development.
2. To acquaint them with the growth and development of Folkloristics.
3. To introduce them to the genres of folklore.
4. To enable students to understand and apply some seminal critical approaches to the study of folklore.

5. To introduce students to the tools, techniques and methods of fieldwork in folklore.

22UENGE36-3: FOLK STUDIES

22UENGS37: PERSONALITY TRAITS

1. Identify their own potentials
2. Improving their abilities and know themselves better
3. Learn the Techniques of Team building and acquire leadership qualities
4. How to gain emotional intelligence and overcome problems and stress

Enhancing integrated personality development

22UENGN38: CREATIVE WRITING

1. To introduce the learners what creative Writing is.
2. Make the students understand the connection between creativity and imagination
3. To introduce the learners to different forms of writings such as poetry, fiction and drama
4. To make them know how to write fiction for children

To enhance their creative writing skills

1. Enable the learners to get acquainted with the themes and techniques by British, American, and Indian dramatists

22UENGC43: DRAMA I

2. Introduce Epic theatre, modern, and British drama

3. Endeavour to read the plays as being representative products of their milieu by juxtaposing them against their political and socio-cultural contexts

4. Give a bird's eye-view of the dramatic changes that took place in twentieth century British, American, and European drama.

Enable the students to appreciate diverse theatrical cultures and non- traditional approaches to the art

1. Through explorations of fiction students learn to interpret and analyse the fictional works from different viewpoints.

2. Enable students to understand and empathize with other people's emotions, sufferings, and perspectives.

3. The students will be encouraged to read more and to identify the elements of fiction.

4. Students will be able to use key vocabulary and comprehension skills to discuss the purpose of fiction.

Develop interest and appreciation of literature

1. Introduce the readers to the Salient features of the different ages and the writers who shaped British Literature from The Age of Transition to the Twentieth Century

2. Help a student to develop a broad understanding of the ages, their characteristics, significant literary movements with reference to the major writers.

3. Know about English Society and History of England.

4. Learn about the development and evolution of English literature

Know about the subsequent influence of France and Germany for the mainstream role in English Literature.

1. To expose the students to apparently simple narratives that have become important area of literary/cultural scholarship in recent times.

2. To let the students acquire knowledge of children's poetry.

3. To enable students to get a glimpse of worldwide trends in children's prose.

4. To help students to be aware of the variety of children's drama and fiction.

To enlighten students about the richness of fairy tales and wonder of folk tales

1. To enable the students to understand the historical background of international migration.

2. To introduce the students to what Diasporic literature is, and its characteristics.

3. To make the students understand the problems of immigrant community.

4. To acquaint them with the contemporary migration patterns as a result of globalization.

To establish how immigration, diaspora and transnationalism are to be studied in context of Indian diaspora

1. Enables students to ensure the style of writing is consistent, and that the text flows organically from one sentence to another.

2. Helps students to verify facts; names, time, places, past and present events, etc.

22UENGC44: FICTION

22UENGA45: HISTORY OF ENGLISH LITERATURE II

22UENGE46-1: CHILDREN'S LITERATURE

22UENGE46-2: DIASPORA LITERATURE

22UENGE46-3: COPY EDITING

3. Ensures correctness, accuracy, consistency, and completeness.
4. Students learn to proofread passages encompassing mechanics like spelling, grammar, and punctuation.

They also develop a meticulous approach to their work and an eye for detail, the ability to maintain high-quality work while meeting tight deadlines, an inquisitive mind, good concentration, to focus on texts that may be lengthy or dull

22UENGN47: ENGLISH FOR COMPETITIVE EXAMINATIONS

1. To instill confidence in learners of English.
2. To improve their language skills to face the challenges of a competitive examination
3. To equip learners with adequate English language skills.
4. To achieve success in competitive examinations

To train learners to improve their comprehension and Composition Skills

1. Enable the students to understand the historical movements and the cultural traits which shaped Indian English Literature
2. Introduce the major Indian English Poets.
3. Familiarize the students with the predominant themes used by Indian writers writing in English.
4. Facilitate learners with an overall exposure to Indian English Literature.

Introduce the historical and social contexts in Indian English writing

22UENGC51: INDIAN ENGLISH LITERATURE

1. Introduce the students to the literature of the United States of America of the nineteenth century.

2. Familiarize them with the important literary movements of that period.

3. Give them a first-hand knowledge of at least ten outstanding works and authors of that period.

4. Inculcate values of cultural acceptance through the works of American Literature.

Encourage the students to discover various themes associated with American Literature

1. Enable the student to survey the history of tragedy and explore all the major aesthetic and philosophical aspects of tragedy, particularly in relation to Shakespeare's plays

22UENGC52: AMERICAN LITERATURE

2. Enable the student to acquire a first-hand knowledge of the plays and poetry of Shakespeare

3. Analyse and trace the evolution of Shakespeare's vision and art

4. Relate the plays to the society, theatre, and genres of Shakespeare's time

5. Familiarize the students with the critical judgment through ages

22UENGC53: SHAKESPEARE

1. Enable students to understand various modes of resistance needed to subvert oppressive socio-cultural structures.

22UENGC54: NARRATIVES OF RESISTANCE

2. Provide insight into struggles of the underprivileged all over the world for identity and rights and contribute proactively to social dynamics.

22UENGE55-1: LITERATURE AND ENVIRONMENT

3. Make students understand how literature acts as a vehicle for voices of dissent and protest.
4. Enable the students to comprehend the growth and development of Dalit literature.

Make the students understand the ethical values associated with this literature

1. To help the learners to understand and address the connection between ecology, culture and literature.

2. To introduce few basic concepts and principles of Ecocriticism.

3. To sensitise the learners to grave ecological concerns.

4. To apply Ecocriticism to the reading of literary texts.

To expose the learners to recent critical theories

1. To make the students understand the origin and development of the English language.

2. To enable the students, have a good knowledge of the growth of the English Language down the centuries.

3. Expose the students to various changes undergone by English language

4. Enable students to understand the growth of English as world language

To acquaint them with the contributions of writers to the development of language

1. To enlighten students how science fiction and fantasy could be a fine melding of literary art and scientific thoughts.

2. To evoke a sense of wonder about the world of science in young minds

3. To acquaint them with a historical development of science fiction and its relevance

4. To introduce the best of detective fiction and involve them in the art of solving puzzles

5. To Provide an understanding of history of detective fiction and its social and cultural contexts

22UENGE55-2: HISTORY OF ENGLISH LANGUAGE

22UENGE55-3: SCIENCE AND DETECTIVE FICTION

22UENGC61: LITERARY THEORY AND CRITICISM

1. To acquaint learners with the knowledge of history of Literary Criticism, its various trends and schools

2. To help learners apply Literary Theory to texts in order to enrich their understanding and appreciation of Literature

3. To make learners develop Literary sensibility and critical thinking

4. To introduce learners to a variety of critical approaches

5. To enable learners to understand a wide range of theoretical perspectives to enhance their appreciation of Literary texts

22UENGC62: NEW LITERATURES IN ENGLISH

1. Introduce the learners to the literatures of the Commonwealth Nations which deal with different aspects of life and its problems

2. Introduce the learners to the characteristics of Commonwealth Literature

3. Familiarize the learners with representative authors from Commonwealth countries

4. Highlight the spirit and lifestyle of the people of the Commonwealth countries

5. Enable the learners to approach the texts from cross-cultural perspectives

22UENGC63: Drama II

1. Introduce the learners to the unique characteristics of the plays written by the British, American, and Indian playwrights.

2. Facilitate learners with an overall exposure to the genre drama.

3. Understand the central concerns of these dramatists through the age they were writing.

4. Study the growth and development of drama.

Develop the aesthetic sense to appreciate drama

1. To familiarize students with few of the world classics in translation

2. To help students understand the evolution of classical works from classical age to modern age

3. To enable the reader, imbibe the values and significance of classics as major cultural influence in literature

4. To assist students in realizing how literatures of the world show a common reality

5. To make students get interested in reading best works beyond borders

22UENGE64 WORLD CLASSICS IN TRANSLATION

1. Motivate the students to understand the origin of language.

2. Enable the student recognize the need for learning correct (RP) pronunciation.

3. Make the student familiar with the different stages of speech production.

4. Help the student know the criteria for the description of English vowels and consonants.

22UENGE65: LANGUAGE AND LINGUISTICS

Familiarize the student with the use of stress and intonation

1. Introduce the students to the theories and practice of comparative literature

2. Enable the students to get acquainted with the various theories of comparative literature

3. Make the students comprehend the different concepts, approaches, and critical practices employed in the study of comparative literature

4. Motivate the students to understand the importance of comparative studies

5. Train the students to acquire comparative skill in the literary arena

22UENGE65-2: INTRODUCTION TO COMPARATIVE LITERATURE

1. Familiarize the students with the different approaches to literature.

2. Enable them to know the principles and techniques.

3. Examine literature in the cultural, economic, and political contexts in which it was written.

4. Enable the students to get acquainted with intellectual flexibility and creativity.

Make the students master the various approaches

22UENGE65-3: APPROACHES TO LITERATURE

1. To make students familiar with internet and its usage

2. To help them learn the basic methods of Exploring Internet

3. To make them get to know the user-friendly browsers in Net.

4. To develop their knowledge of using Multi-media

To enable them create own blogs and webpages

22UENGS66: ENGLISH FOR INTERNET

BA HISTORY

22UHISA15-1: STUDIES ON STATES AND GOVERNMENTS-I

1) Differentiating various kinds of States and their merits and demerits

- 2) Explain the meaning and features of constitution
- 3) Understand the theory separation of powers.
- 4) Learn the features of suffrage and constituency.

Know the role, types and the defects of political parties

1) Impart the basics and importance of Political Science as a subject of study.

- 1) Explain the nature of the State and its association with society and Associations.
- 2) Describe the theories of State.
- 3) Know the meaning and nature and theories of Sovereignty.

Examine the rights and duties of Citizens

1) Elaborate the basics of Sociology and its relationship with other Social Sciences.

- 1) Explain the various concepts of sociology.
- 2) Point out the aspects and characteristics of social group.

3) Describe the elements and functions of Culture and how it differs from Civilization.

Learn the different type of Social Institutions

1) Understand India's location in the globe, and important of rivers, mountains, plains and coastal areas in India.

2) Know about the climate of India, and significance of monsoons, rainfall and forest resources in India.

3) Analyze types of soil and plants, and know the need for improved the Irrigational systems and multi-purpose river projects in India.

4) Bring forth the various industries and conventional energy sources for economic development in India.

Cull out the features of geography and anthropogeography of Tamil Nadu

1) Explore the causes for the rise of Kingdoms like Palas, Pratiharas and Rastrakutas and survey the condition of Indian society on the eve of Arab invasion

2) Appraising the consequences of Mohammadan invasions and the consequent rule of Slave dynasty

3) Discuss the dynastic history of Khilji and Tugluks

4) Focus on the administration of under the Lodi dynasty and decline of the Sultanate

Study the Socio and Economic life under the Delhi Sultanate, Vijayanagar and Bahmini reign

1) Discuss on the origin and growth of Vijayanagara Empire and its penetration in Tamil Nadu.

2) Understand the Nayak rule in Madura, Tanjore and Gingee and its impact on Society, Economy and Culture

3) Reveal the rule of Marathas, Sethupathi and Nawab of Arcot and society under them

4) Bring forth the circumstances leading to European expansion in Tamil Nadu

5) Explain the causes and consequences of early anti-British resistances in Tamil Nadu

1) Highlight the roots and salient features of Indian Constitution

22UHISA15-2: OUTLINES OF POLITICAL THEORY- I

22UHISA15-3: PRINCIPLES OF SOCIOLOGY - I

22UHISS16: INDIAN GEOGRAPHY

22UHISC23: HISTORY OF INDIA FROM 712 C.E. TO 1526 C.E.

22UHISC24: HISTORY OF TAMIL NADU FROM 1336 C.E. TO 1806 C.E

22UHISA25-1: STUDIES ON STATES AND GOVERNMENTS - II

1) Explaining in detail nature and scope of Fundamental Rights and Directive principles of State policy

2) Point out the powers, duties and functions of Union Legislature, Executive and Judiciary

3) Elaborate the powers, duties and functions of State Legislature, Executive and Judiciary

Impart knowledge on functioning and structure of Urban and Rural self Governments

22UHISA25-2: OUTLINES OF POLITICAL THEORY – II

1) Describe the main aspects of Constitution.

1) Explain the significance of adult suffrage and organizational structure of Legislature.

2) Highlight the types and functions of Executive.

3) Describe the functions of Judiciary and differentiate rule of Law from Administrative Law. Reveal the articulation of political participation by different agencies like political parties and mass media.

22UHISA25-3: PRINCIPLES OF SOCIOLOGY – II

1) Gain knowledge on socialization of individuals by the family and society

1) Discuss the different types of social process and its consequences

2) Study the types and need for social control aiming at progress

3) Describe about the society's categorization of people into groups based on factors like wealth, education and gender

4) Reveal the factors for social change and modernization

22UHISS26: CULTURAL HERITAGE OF TAMILNADU

1) Defining cultural heritage and trace the history of cultural heritage of Tamils from rudimentary stage.

2) Understand the evolution and growth of education, Art and Architecture during the medieval period in Tamil Nadu.

3) Explore the historical significance of important heritage monuments from the period Nayaks to Nawabs.

4) Discuss the European contribution of literature, art and architecture.

Focus the need for legal measures to protect and conserve Heritage centres in Tamil Nadu

22UHISC33: HISTORY OF INDIA FROM 1526 C.E. TO 1858 C.E

1) **LO1:** Study about the period of India on the eve of Babur invasion.

2) **LO2:** Realize the factors for the decline of Mughal Empire and Achievement of Krishna devaraya.

3) **LO3:** Acquire knowledge on the condition of society.

4) **LO4:** Learn the details of the English East India company.

LO5: Understand the major developments of the subsidiary Alliance

22UHISC34: HISTORY OF TAMIL NADU FROM 1806 C.E. TO 1947 C.E.

1) **LO1:** Understand the administrative policy of British Government and activities of Christian Missionaries in Tamil Nadu

1) **LO2:** Comprehend various land revenue system introduced by Company rule in Tamil Nadu

2) **LO3:** Know about socio religious reform moment and intellectuals in Tamil Nadu

22UHISA35-1: TOURISM –I	<p>3) LO4: Realize the important of oriental and occidental education system during the time of company rule</p> <p>LO5: Bring forth the role of Tamil Nadu in freedom struggle of India</p> <p>1) LO1: Explore the definition, meaning, nature and different types of tourism.</p> <p>2) LO2: Understand the components of tourism.</p> <p>3) LO3: Know about the sources of tourism in India.</p> <p>4) LO4: Describe the various aspects of religious tourism in India.</p> <p>5) LO5: Examine the tourism policy and various agencies of tourism in India.</p>
22UHISA35-2: INDIAN: ECONOMY–I	<p>1) LO1: Enable the students to understand the salient features of India and her occupational structure.</p> <p>2) LO2: Assess the relative share of Agriculture, industry and service sector in the economy.</p> <p>3) LO3: Analyse the fruits of planning.</p> <p>4) LO4: Recognise the importance of land reforms.</p>
22UHISA35-3: JOURNALISM-I	<p>LO5: Evaluate and determine the improvements of small scale and large scale Industries</p> <p>1) LO1: Cater the basic principles of Journalism.</p> <p>2) LO2: Analyse the kinds of Journalism.</p> <p>3) LO3: Understand the growth of press and media.</p> <p>4) LO4: Create an idea about the factors for the growth of Tamil Journals.</p> <p>LO5: Learn the role of press in socio-cultural developments</p>
COURSE CODE:22UHISE36-1 ENVIRONMENTAL HISTORY OF INDIA	<p>1) LO1: Understand the significance of Eco System.</p> <p>1) LO2: Know about Asoka’s concern for environment.</p> <p>2) LO3: Learn about the importance of Industrial Age.</p> <p>3) LO4: Acquire knowledge about the emergence of environmental consciousness.</p>
COURSE CODE:22UHISE36-2 INTRODUCTION TO ARCHAEOLOGY	<p>LO5: Realise the relevance of disaster management</p> <p>1) Assess the different scientific techniques associated with archaeology</p> <p>2) Create awareness and skills on the excavation procedures</p> <p>3) Update the information on recent Archaeological excavation.</p>
COURSE CODE:22UHISE36-3 WOMEN STUDIES IN TAMIL NADU	<p>Learn about the conservation of monumental sites</p> <p>LO1: Gain knowledge about the position of women in Tamil Nadu</p> <p>LO2: Expose to a substantial knowledge about the social construction of gender in various cultural contexts from a variety of disciplinary.</p> <p>LO3: An active participants in politics and National development</p> <p>LO4: Know about the Women organisations in Tamil Nadu.</p> <p>LO5: Understand the importance of Women Empowerment programmes</p>
COURSE CODE: 22UHISS37 HUMAN RIGHTS EDUCATION	<p>LO1: Understand the various theories in Human Rights.</p> <p>LO2: Learn about the nature and works of Amnesty International</p>

**COURSE CODE:22UHISN38 FOREIGN POLICY
OF INDIA**

- LO3:** Get an idea on the condition of bonded Labourers.
LO4: Know about the Directive principles of the Constitution.
LO5: .Realize the significance of emerging trends in Human Rights
LO1: Learn about the basic determinants of India's foreign policy.
LO2: Understand the major issues in India's foreign policy.
LO3: Realize the cooperation in south east Asia.
LO4: Know about India's relationship with other nations.
LO5: Acquire knowledge on India's nuclear policy

**22UHISC43: HISTORY OF INDIA FROM 1858 C.E.
TO 1947 C.E.**

- LO1:** Acquire knowledge on the queen proclamation.
LO2: Learn about the birth of India national congress.
LO3: Understand the unique features of Roundtable Conferences.
LO4: Focus on the Indian natural Army.
LO5: Study the significance of Indian independence great leaders.

**COURSE CODE: 22UHISC44 CONTEMPORARY
HISTORY OF TAMIL NADU
SINCE 1947 C.E.**

- LO1:** Understand the rule of Indian National Congress from 1947 to 1967 in Tamil Nadu.
LO2: Know about the rule of Diravida Munnetra Kazhagam from 1967 to 1976
LO3: Bring forth the circumstances for formation of All India Anna Diravida Maunnetra Kazhagam and rule of Dr. M.G. Ramachandiran
LO4: Analyze the ruling system and welfare measures from 1989 to 2000
LO5: Understand Economical measures social welfare schemas and educational development in Tamil Nadu from 1947 to 2000

COURSE CODE:22UHISA45 - 1 TOURISM –II

- LO1:** Understand the Growth and development of Modern Tourism .
LO2: Sketch the varies international organization of tourism.
LO3: Understand the sources of tourism in India.
LO4: Describe the travel management of Indian tourism
LO5: Examine the PAN of India related to tourism

**COURSE CODE:22UHISA45 - 2 INDIAN
ECONOMY –II**

- 1) **LO1:** Understand the importance of industrial finance.
2) **LO2:** Learn about the rationale of New Economic Policy.
3) **LO3:** Study on New population policy.
4) **LO4:** Know about labour legislation.
LO5: Acquire knowledge on Foreign Trade

COURSE CODE:22UHISA45 - 3 JOURNALISM – II

- LO1:** Understand the mass media in the souduy.
LO2: Learn about the kinds of News.
LO3: Know about the use of editing works.
LO4: Get an idea about role of computer in press.
LO5: Acquire knowledge about Indian press code.

**COURSE CODE:22UHISE46 - 1 TEMPLE ART AND
ARCHITECTURE OF
TAMILNADU**

- LO1:** Learn the genesis of Temple Art and Architecture.
LO2: Develop the idea on the types of architectural styles..
LO3: Understand the concept of sculpture on Temples in Tamilnadu.
LO4: Know about early phases of cave architecture.
LO5: Acquire knowledge on Hindu Iconography

**COURSE CODE:22UHISE46 - 2 INDIAN
NATIONAL MOVEMENT FROM**

- 1) **LO1:** Understand the national awakening and the rise of nationalism in India.

1885 C.E. TO 1947 C.E.

2) **LO2:** Learn the early Satyagraha Movements of Gandhi.

3) **LO3:** Know the revolutionary movements in India and abroad.

4) **LO4:** Understand the Constitutional Developments in India from 1858 to 1935

LO5: Acquire knowledge about India's struggle for freedom from the British and comprehend the history of Indian National Movement

COURSE CODE: 22UHISE46-3 NUMISMATICS

1) **LO1:** Learn the physical properties, coinage process and historical background.

2) **LO2:** Know the different types of coins.

LO3: Understand the values of coins during the sangam period. **LO4:** Comparative study in Indian coins and other countries coins. **LO5:** Asses the usages of coins

22UHISN47: CONSTITUTIONAL HISTORY OF INDIA FROM 1773 C.E TO 1950 C.E

1) **LO1:** Learn about the factors contributed for the passing of regulating Act.

2) **LO2:** Understand the event connects with charter Act of 1853.

LO3: Acquire knowledge about importance of Queens proclamation. **LO4:** Realize the introduction of Diarchy in chemsfor Reform Act. **LO5:** Know about the significance of the Act of 1947

COURSE CODE: 22UHISC51 HISTORY OF INDIA SINCE 1947 C.E.

LO1: Equip the students with the knowledge of various Historical foundation of Indian foreign policy.

LO2: Trace the courses and consequences of Indo-Pakistan war.

LO3: Understand the knowledge of Janata government.

LO4: Study the various policies of National front government.

LO5: Learn the foreign policy of contemporary History of India

COURSE CODE: 22UHISC52 HISTORY OF EUROPE FROM 1453 C.E. TO 1789 C.E

LO1: Get an idea about the fall of Constantinople.

LO2: Realize the impact of Renaissance.

LO3: Explain the various stages of Reformation.

LO4: Discuss about achievements of Frederick the Great.

LO5: Describe the impact of American War of Independence

COURSE CODE: 22UHISC53 HISTORY OF USA FROM 1861 C.E. TO 1932 C.E.

LO1: Reveal significance of Civil War in U.S.A.

LO2: Understand the factors of Labur movement.

LO3: Know about the concept of Westward Expansion.

LO4: Learn about the significance of Progressive Era.

LO5: Get an idea about Fourteen points of Woodrow Wilson

COURSE CODE: 22UHISC54 HISTORY OF CHINA FROM C.E. 1900 TO

C.E.1990

1) **LO1:** Acquires knowledge about the Manchurians.

2) **LO2:** Analyze the role of Dr.Sun Yat Sen to Chinese History.

3) **LO3:** Learn the causes and effect of second Sino-Japanese war.

4) **LO4:** Get an idea about Cultural Revolution in China.

LO5: Evaluate the impact of China's political system during this era

COURSE CODE: 22UHISE55-1 HISTORY OF THE ARABS 750 C.E. TO 1258 C.E.

1) **LO1:** Impart an idea regarding the greatest glory of the Abbasids.

2) **LO2:** Trace the political stability during the Abbasid era and the Abbasids rise to power.

**COURSE CODE: 22UHISE55-2 HISTORY OF
SCIENCE AND TECHNOLOGY IN**

INDIA UPTO 1900 C.E.

**COURSE CODE: 22UHISE55-3 DRAVIDIAN
MOVEMENT IN TAMIL NADU**

UPTO 1947 C.E.

**COURSE CODE: 22UHISC61 HISTORY OF EUROPE
FROM 1789 C.E.**

TO 1945 C.E.

**COURSE CODE: 22UHISC62 HISTORY OF USA
FROM 1932 C.E. TO 2000 C.E.**

**COURSE CODE: 22UHISC63 HISTORY OF JAPAN
FROM 1853 C.E. TO 1990 C.E.**

**COURSE CODE: 22UHISC64 HISTORY OF
MODERN WORLD UPTO**

1945 C.E.

3) **LO3:** Provide an in depth knowledge to students about the legacy in their intellectual life.

4) **LO4:** Provide knowledge to the students regarding the causes and effects of Crusades.

LO5: Get an inspiration about number of Muslim dynasties which made important contribution to civilization

1) **LO1:** An in depth knowledge of how science and technology, broadly conceived, have been part of historical development processes

2) **LO2:** Understanding of the place of science and technology in society.

3) **LO3:** Clear insights into how the science and technology has developed to cultivation of crops.

4) **LO4:** Educate the technology and non-agricultural production methods in India.

LO5: Create an interest to learn the modern science and technology

LO1: Know about significance of Dravidian and Aryan races

LO2: Understand the factors for and necessity of formation of south Indian liberal federation.

LO3: Analyze the activities of justice party Government to the welfare of the society.

LO4: Bring forth the causative factors for anti – Hindi agitation in Tamil Nadu.

LO5: Learn the contribution of Dravida Kazhagam for tamil society

1) **LO1:** Know about the significance of Continental System.

2) **LO2:** Get an idea about the features of Matter rich Era.

3) **LO3:** Understand the role of Garibaldi in unification of Italy.

4) **LO4:** Learn about the impact of Young Turk Movement.

5) **LO5:** Acquire knowledge on Fascist ideologies.

1) **LO1:** Learn about the policy of New Deal.

2) **LO2:** Understand the foreign policy of U.S.A. under Harry.S. Truman.

3) **LO3:** Know about the impact of Civil Rights Movement.

4) **LO4:** Get an idea about policies of Jimmy Carter

LO5: Realize the importance of the regime of Ronald Reagan

1) **LO1:** Acquire Knowledge about the history of Shogunate.

2) **LO2:** Associate the main reasons for the Meiji restoration

3) **LO3:** Know the rise of imperialism in Japan

4) **LO4:** Analyse the causes for nationalism and militarism in Japan

LO5: Asses the political, social and economic changes in Japan

1) **LO1:** Understand the characteristics of the middle ages.

2) **LO2:** Learn the transition process from the middle ages to the modern age.

**COURSE CODE: 22UHISE65-1
CONSTITUTIONAL HISTORY OF ENGLAND
FROM 1603 C.E. TO 2000 C.E**

3) **LO3:** Know the significance of renaissance in various fields including geographical and scientific discoveries

4) **LO4:** Realize the impacts political revolutions, industrial and agrarian revolutions.

5) **LO5:** Acquire knowledge about the developments in science and technology and also the history of modern world till the second world war

1) **LO1:** Make the student understand the constitutional development in England.

2) **LO2:** Understand main features of Parliamentary form of government.

3) **LO3:** Know about the brief history of Constitutional development up to 1603 A.D- Charter of Liberties.

4) **LO4:** Get an idea about Magna Carta and its importance - Provisions of Oxford - Parliament of 1265.

LO5: Know about the features of the Statute of West Minister

1) **LO1:** Know about the functions of Asiatic Society of Bengal.

2) **LO2:** Understand the food crops patterns in India.

3) **LO3:** Learn about the development of satellite system.

4) **LO4:** Get an clear vision on the genesis of cottage industries.

LO5: Acquire knowledge on brain drain

1) **LO1:** Understand role of Dravida kazhagam for modification of the society

2) **LO2:** Know about abandoning of separate Dravida nadu

3) **LO3:** Analyze the welfare measures in introduced by Dravida Munnetra Kazhagam in Tamil Nadu

4) **LO4:** Learn about the welfare measures and development activities of ADMK in Tamil Nadu

5) **LO5:** Bring forth political changes in Tamil Nadu after assassination of Rajiv Gandhi

1) **LO1:** Impart overall idea about Competitive Examinations

2) **LO2:** Create awareness about various Central Level Competitive Examinations

3) **LO3:** Educate the students about various State Government Services & Examinations

1) **LO4:** Make students alert about the opportunities teaching position both central/state and school/Higher Education

2) **LO5:** Motivate the students through preparation tips & suggestions

**COURSE CODE: 22UHISE65-2 HISTORY OF
SCIENCE AND TECHNOLOGY IN**

INDIA SINCE 1990 C.E

**COURSE CODE: 22UHISE65-3 DRAVIDIAN
MOVEMENT IN TAMIL NADU**

**COURSE CODE: 22UHISS66 COMPETITIVE
EXAMINATION METHODS**

BA ECONOMICS

22UECOC13: MICRO ECONOMICS – I

1. To introduce the Concepts and Definitions of Economics and Micro economics

2. Acquires the knowledge of the Demand and Supply analysis.

3. Understands the Concept Utility, Laws of utility and Consumer Surplus

22UECOC14: INDIAN ECONOMY

4. Understand the Indifference curve analysis and Consumer's Equilibrium.

Understands the importance of the theory of production & Producer Equilibrium

1. Understands the Concepts-Underdevelopment, Economic Growth and
2. Economic Development.
3. Acquires knowledge of Agricultural and Industrial Development during (1950-1991)
4. To understands the New Economic Policy and about NITI Ayog.
5. To Acquires knowledge of developments since 1991.
6. To understands the Role of Service and Financial sectors

22UECOA15-1: MONEY AND BANKING

1) It highlights the organization, structure and role of money markets.

2) It also discusses Banking System and Implications of Banking in monetary control.

3) It explains the Objectives, Functions and Working of State Bank of India & Lead Bank

Banking sector reforms and monetary policy with special reference to India are also covered.

1) Acquires knowledge about the Geographical features and Natural resources in Tamil Nadu.

1) Understands the Human Resources & the Human development index.

2) Gains knowledge of agricultural sector in Tamil Nadu.

3) Knowledge of the industrial sector in Tamil Nadu.

22UECOA15-2: TAMILNADU ECONOMY

Understands the Service sector of Tamil Nadu

1) To familiarize with the role of Infrastructure in Economic Development and Growth.

1) To know the issues related to Physical Infrastructure Services.

2) To understand the problems and prospects of Economic Infrastructure.

3) To get exposure in the major Social Infrastructure Facilities and their Economic Implications.

To get an idea on the various Schemes available for Infrastructural Development in the country

22UECOS16: ECONOMICS OF FOOD AND NUTRITION

1. To make the students understand the concept and importance of food security.

2. To make them understand the importance of nutrition in the promotion of health.

3. To make them gain knowledge about nutrition problems existing in the country.

4. To develop skills to assess the nutritional status of the country.

To inculcate the skill to deliver nutritional services and enable to become entrepreneurs in the field of food and nutrition

22UECOC23: MICRO ECONOMICS - II

1. Understands the various cost and revenues in the process of production.

2. Acquires knowledge of a Perfectly competitive market.

3. Understands the different Imperfect competition markets.

4. To get knowledge of pricing of factor of production -Land and Labour.

Understands the theories of Interest and Profit

22UECOC24: MATHEMATICS FOR ECONOMICS	<ol style="list-style-type: none"> 1. The goal of this course is to provide students with the essential concepts of Economic Model. 2. To prepare them to understand the Matrix Algebra. 3. To make them understand various Applications of Matrix Algebra. 4. To emphasize the importance of Derivatives.
22UECOA25-1: RURAL ECONOMICS	<p>An attempt to train students to collect and interpret data on economies</p> <ol style="list-style-type: none"> 1) To develop farm, home, public service and village commUNITY. 1) To bring improvement in producing crops and animals living condition. 2) To improve health and education condition etc. improvement of the rural people. 3) To improve villagers with their own efforts. To improve village communication
22UECOA25-2: WELFARE ECONOMICS	<ol style="list-style-type: none"> 1) To know the basic concepts Welfare Economics. 1) To get know the comprehensive Knowledge of Old Welfare Economics. 2) To get an insight into Social Welfare Function. 3) To know the developments of Social Welfare Function. <p>To know the recent developments in Welfare Economics</p>
22UECOA25-3: ECONOMIC HISTORY OF INDIA (1857-1947)	<ol style="list-style-type: none"> 1) To make the students understand the meaning and scope of economic history. 1) To make them aware of the economic conditions that existed during colonial period. 2) To make them understand the growth and structural changes during colonial rule. 3) To gain knowledge about the impact of the colonial rule on agriculture and industry. 4) To gain knowledge about colonial fiscal and monetary systems.
22UECOS26: PERSONALITY DEVELOPMENT	<ol style="list-style-type: none"> 1. To Enhance holistic development of students and improve their personality 2. To understand themselves and be an effective goal-oriented team player 3. To develop professionals with idealistic, practical and moral values 4. To develop self-confidence and communication skill 5. To develop positive attitude and positive thinking
22UECOC33 - MACRO ECONOMICS - I	<ol style="list-style-type: none"> 1. To get know the basic concepts and Methods of Macro Economics. 2. To know the methods of computation of National Income. 3. To observe the Theories on Employment. 4. To know about the approaches on Consumption Function.
22UECOC34 - STATISTICS FOR ECONOMICS	<p>To understand the Investment Function and its Dimensions</p> <ol style="list-style-type: none"> 1. To prepare students for basic empirical works in economics. 2. To introduce set of research data used in Classification and Presentation of Data to estimate and test economic relations. 3. To introduce theory and application of Univariate Analysis.

4. To introduce linear regression analysis to students.

To provide opportunity with the help of index numbers to use actual economics

22UECOA35 -1 - HEALTH ECONOMICS

1. To enable the students to understand the health economics.
2. To equip them with necessary techniques to measure status and health indicators.
3. To teach the students the importance of the health economics.
4. To enable the knowledge of the health care and health cure.

To gain the knowledge of the health care services in developing countries

22UECOA35 -2- URBAN ECONOMICS

1. To make the students understand the nature and scope of urbanisation
2. To make them understand the causes of urbanization
3. To make them analyse the problems of urbanization
4. To make them understand the theories and factors affecting migration
5. To give them knowledge about policies and programmes of urban development

22UECOA35-3: PRINCIPLES OF COMMERCE

1. To familiarize non-commerce students with the principles of commerce.
2. To acquaint and equip the students with the latest knowledge in the field of
3. Commerce.
4. To prepare them for higher studies in Commerce.
5. To take a job in the trade/finance, insurance organizations and industry with basic Commercial know-how.
6. To impart the students the basic requirements to enable them to take up Business as a career.

COURSE CODE: 22UECOE36-1 ENERGY ECONOMICS

1. To impart knowledge of issues of energy to the students.
2. To make the students to understand the Energy demand, Supplying and pricing of energy economics.
3. To understand the role of energy in economic activity.
4. To analyse the demand for energy and understand how to manage it.

COURSE CODE: 22UECOE36-2 ECONOMICS OF CLIMATE CHANGE

1. To provide students with a strong foundation on the economics of climate change.
2. To enable them to understand key concepts in climate change adaptation.
3. To educate the vulnerability of climate change and implication.
4. To analyse the climate change issue and find path for mitigation.
5. To make better-informed environmental policy decision for sustainable development

22UECOS37 SKILL BASED SUBJECT III SALES & ADVERTISEMENT

1. To make the students understand about functions and types of advertisement
2. To give them knowledge about various media of advertising
3. To make them understand about advertisement copy

**22UECON38: NON-MAJOR ELECTIVE I
FUNDAMENTALS OF ECONOMICS I**

4. To make them gain knowledge about salesmanship

To make them understand sales promotion

1. To give knowledge on the basic concepts of Micro Economics.

2. To know the different forms of National Income.

3. To know about economic growth

4. To understand the extent of Poverty in India

5. To know the unemployment problem in India.

22UECOC43 MACRO ECONOMICS - II

1. To understand the Incidence of Inflation, Deflation in the Economy.

2. To get ideas on the Dimensions of Trade Cycle.

3. To acquire knowledge on IS-LM. Models.

4. To Know the Theoretical Developments in Macro Economic Issues.

To understand the perceptions of Monetary Policy and Fiscal Policy and Income Policy of the Economy

1. To make the students aware of Scope and Role of Agriculture in Economic Development.

2. To understand the concept of Land Reforms and its problems and measures.

3. To identify the sources and problems of agricultural Finance.

4. To know the concepts and functions of CACP.

To understand the Scope, importance and Types of Agricultural Marketing

1. To prepare students for basic empirical works in economics.

2. To introduce set of research tools used to estimate and test economic relations.

3. To introduce linear regression analysis to students.

4. To introduce theory and application of contemporary economic tools.

To introduce simultaneous equation methods and its application in economic models and to provide opportunity to use actual economic for testing economic theories.

22UECOA45-1 ECONOMETRICS

22UECOA45 -2 – LABOUR ECONOMICS

1. To State the significance of labour Economics.

2. To understand the functions of labour market, concept wage, the relationship between worker and employees.

3. To describe the role of Trade Unions in India.

4. To Explain the industrial disputes and issues of labours in India.

To analyse the Social Security Schemes for Labourers

**22UECOA45-3 ECONOMICS OF DISASTER
MANAGEMENT**

1. To provide basic conceptual understanding of disasters.

2. To understand approaches of Disaster Management.

3. To make the students understand economic impact of natural disasters.

4. To identify and discuss common post-disaster problems.

5. Explain how lessons learned and post-disaster evaluations improve future response performance.

22UECOE46-1 ECONOMICS OF INSURANCE

1. To make the students understand importance of insurance

2. To make them understand about life insurance

	<ul style="list-style-type: none"> 3. To make them gain knowledge about different types of insurance 4. To make them understand the role of insurance in economic development <p>To make them understand the role of IRDA</p>
22UECOE46-2 DEMOGRAPHY	<ul style="list-style-type: none"> 1. To give students knowledge about the nature and scope of population studies and population surveys 2. To make them study the trends in population growth in the world and in India 3. To make them understand about sex and age structure of population 4. To Make them understand the factors affecting fertility and migration <p>To make them gain knowledge about population policies</p>
22UECOE46-3 GENDER ECONOMICS	<ul style="list-style-type: none"> 1. To make the students understand the theory of gender economics 2. To make them critically analyse how gender equality shapes economic development 3. To make them interpret and compare the indicators of gender development 4. To make the analyse various development policies from gender perspective <p>To make them understand gender discrimination in work, wages and asset distribution</p>
22UECON47: NON-MAJOR ELECTIVE II FUNDAMENTALS OF ECONOMICS II	<ul style="list-style-type: none"> 1. To give knowledge on the basic concepts of Public Finance. 2. To know the Origin and Functions of RBI. 3. To give knowledge on inflation 4. To understand the phases of Trade Cycle. 5. To introduce the concepts of International Trade, BOP & BOT.
22UECOC51: INTERNATIONAL TRADE I	<ul style="list-style-type: none"> 1. To familiarize basic concepts of International Trade 2. To give knowledge about the International Trade Theories and its role. 3. To teach the Trade Policies and its effects 4. To create awareness on the Exchange Rate of India 5. To teach the theories of foreign exchange.
22UECOC52 MONETARY ECONOMICS	<ul style="list-style-type: none"> 1. To introduce the concept of Money and its functions. 2. To understand the Money Standards & methods of Note issue. 3. To give knowledge on the Theories of Money. 4. To get knowledge of Demand for money & Supply of money. <p>To understand meaning of Monetary policy, and the instruments of Monetary policy</p>
22UECOC53 FISCAL ECONOMICS	<ul style="list-style-type: none"> 1. To get knowledge on the scope of Fiscal Economics 2. To know the sources of public revenue and its recent trends. 3. To assess the impact of public expenditure 4. To understand public debt and its effects. 5. To know the role of fiscal instruments on the Indian Economy
22UECOC54 DEVELOPMENT ECONOMICS	<ul style="list-style-type: none"> 1. The goal of this course is to provide students with the essential concepts of Development economics and to prepare them to understand the causes of under development. 2. To make them understand various growth models of development.

22UECOE55 -1 COMPUTER APPLICATION FOR ECONOMICS

3. To explain the choice of technology that makes a big difference in the result
4. An attempt to train students to collect and interpret data on developing economies.

To emphasize the importance of resource allocation through growth models

1. To enable the students to understand the different components of computers and its application in economics.
2. To understand how to process the available data for making meaningful analysis.
3. To train the students on practical business approaches using high level preparing languages in real world.
4. To make the students aware about the useful application of different computer languages that save real world problems.

To enhance the knowledge on statistical Packages and SPSS analysis

22UECOE55-2 CONSUMER AWARENESS AND RIGHTS

1. To familiarize the students with their rights and responsibilities as a consumer
2. To make them understand the social framework of consumer rights and the legal framework of protecting consumer rights
3. To make them understand the procedure of redress of consumer complaints
4. To make them understand the role of different agencies in establishing product and service standards

To make them comprehend the business firms' interface with consumers and the consumer related regulatory and business environment

22UECOE55-3 FINANCIAL ECONOMICS

1. To make the students understand functions and organization of financial systems
2. To make them gain knowledge about money market
3. To make them understand about capital market
4. To make the articulate role of non-banking financial companies
5. To make them understand control of financial markets

22UECOC61: INTERNATIONAL TRADE II

1. To introduce the Functioning of International Monetary System & International Capital Flows.
2. To understand the implications of BOP & BOT
3. To make the students to discuss about Foreign trade growth in India
4. To familiarize India's Export and import policies.
5. To discuss the New Economic Policy and its impact on International Trade

22UECOC62: HISTORY OF ECONOMIC THOUGHT

1. To know the systematic development of Economic Concepts beginning from Pre- Classical to Modern Era.
2. To make the students to understand the life and contributions of the Historical, Marginal and Austrian Economists
3. To get know the ideas of Karl Marx and Engels
4. To understand the concepts and contributions of Keynesian, Neo-Keynesian and Welfare School

22UECOC63 ENVIRONMENTAL ECONOMICS

To gain confidence in evaluating economic ideas of Indian Economists and Nobel laureates

1. To learn about environment-economy linkage and importance.
2. To explain the environmental factors influencing on the development of the country.
3. To understand the economic roots of environmental damage.
4. To understand various types of pollution and its impact.
5. To create awareness among the students on environmental policy and its management.

22UECOC64 INDUSTRIAL ECONOMICS

1. To know the Nature and Scope of Industrial Economics.
2. To get insight on the theories of industrial location.
3. To know and acquire knowledge and importance of Industrial Finance.
4. To get an idea about Industries and Industrial Policy Resolutions.

To analyze the issues in Industrial Sector

22UECOE65 -1 – MANAGERIAL ECONOMICS

1. To understand the economics principles and its application in business.
2. To develop economics based analytic skills to business.
3. To predict the demand, price, profit and capital requirements for a firm in future.
4. To make the learners to strong in economical approach on Profit management and policy making.

To understand the knowledge of Capital budget and project profitability

22UECOE65 -2 - AGRICULTURAL MARKETING

1. To understand about Agricultural marketing concepts, strategies and trends.
2. To provide a theoretical foundation for use in the analysis of Agricultural Economic problems, especially in the marketing.
3. To Emphasis upon recognition of agricultural problems and solving them through relevant agricultural policies.
4. To get knowledge of the functions of wholesalers, retailers and middlemen.

To know the knowledge of Agricultural and Agro - based products for export promotions of Marketing

22UECOE65 -3 - ECONOMICS OF EDUCATION

1. To make the students to understand the meaning and scope of Economics of Education
2. To make them learn about cost of education
3. To make them analyse pricing of education and finance for education
4. To make them understand the methods of measuring the contribution of education to development

To make them analyse educational equity measures

22UECOS66 - BUSINESS COMMUNICATION

1. To make the student understand the importance and process of communication
2. To make them gain knowledge about business letters and orders
3. To make them gain knowledge about different types of letters and correspondence
4. To make them understand about preparation of minutes and annual report

To make them gain knowledge about communication media

**22UPOLC13 - PRINCIPLES OF POLITICAL
SCIENCE**

- 1) This course discusses the concepts, ideas and theories both historically and analytically.
- 2) This course encourages the students to learn the Organizations and functions of the State.
- 3) This course will enlighten the students to learn about the major Political ideals such as Rights, Liberty, Equality, Law and Justice.
- 4) This course will promote the Political Ideals like Civil Society, democratic participation and political Obligation to the students.

Finally, it will mitigate the better understanding of various Political Ideologies like Marxism, Liberalism, Socialism and Gandhism

**22UPOLC14 : CONSTITUTIONAL
DEVELOPMENT IN INDIA SINCE 1773**

- 1) To learn about the British period of India
- 2) To understand functioning of British empire
- 3) To grasp the actions and reactions in Indian territory
- 4) To have comprehensive understanding about different acts
- 5) To have an in depth knowledge on the growth of our Constitution

**22UPOLA15-1: INTRODUCTION TO HUMAN
RIGHTS**

- 1) To know the genesis of human rights
- 2) To understand the protective mechanisms at international and national levels
- 3) To know the issues and challenges of Human rights
- 4) To know international human rights instruments

To explore the human rights issues in India

**22UPOLA15-2: PARLIAMENTARY SYSTEM IN
INDIA**

- 1) To impart about different Parliamentary Committees
- 2) To know about the procedures of legislative acts
- 3) To be acquaint with law-making process
- 4) To understand the composition of Parliament
- 5) To understand various motions in Parliament

22UPOLA15-3: POLITICAL LEADERSHIP

- 1) To know the principles of types of leadership
- 2) To know the leadership dynamics
- 3) To understand the political leadership in India
- 4) To explore various types of leaderships
- 5) To examine the leadership in India

**22UPOLS16: SOCIAL WELFARE
ADMINISTRATION IN INDIA**

- 1) To know the state and central administration.
- 2) To increasing importance given to this area of governmental activity.
- 3) To understand the social welfare administration and department of social welfare.
- 4) To analyse the social welfare policy and implementation of the policy.

To understand the various concepts of social welfare

**22UPOLC23: INTRODUCTION TO THE
CONSTITUTION OF INDIA**

- 1) This course aims to making the students aware of the text of the constitution of India.
- 2) This course intends to imparts a comprehensive nature of Indian Constitution.
- 3) It focuses on the basic principles & Indian constitution such as the Preamble, Rights and Duties, citizen and political institution.

4) It gives an understanding about the union government in India

5) This course intends to examine the various constitutional issues in India

22UPOLC24: CITIZEN AND CIVIC ENGAGEMENT

1) Meaning of citizen education

2) Understanding important welfare schemes of the government

3) The practical ways of making use of the welfare schemes

4) Able to understand how the government administration works in India

To understand about citizens charter

1) To Identify and address core issues in public governance

2) To Identify the challenges posed by global process

3) To Discuss the public policy.

4) To know the difference between private and public administration

To study the theories of organizational behavior

1) To know about the judicial functions

2) To grasp the basic features of Indian Judicial system

3) To learn the structure and functions of Indian Judiciary

4) To know various levels of courts

5) To understand the administrative procedures in courts

22UPOLA25-1: PRINCIPLES OF PUBLIC ADMINISTRATION

22UPOLA25-2: JUDICIAL SYSTEM IN INDIA

22UPOLA25-3: POLICE ADMINISTRATION IN INDIA

1) To know the evolution of police administration in India

2) To explore the police recruitment, training and its issues

3) To discuss the issues in the functions of police

4) To explore the jail administration

5) To get knowledge about various Homes

22UPOLS26: E-GOVERNANCE

1) To understand about the basics of e-governance

2) To learn about the implementation of e-governance

3) To investigate the issues related with the process of implementation

4) To understand the creation of E-Governance

To analyse the challenges of E-Governance

22UPOLC33 –WESTERN POLITICAL THOUGHT

1. To enable the students to understand the growth and diverse areas of the Western political thought

2. To study the Ancient and Medieval Western Political Thought and also classical thinkers and their contributions to political science.

3. To Understand the Modern Political Thought with the help of the great political thinkers and their perspective of theoretical solution to the modern political thought.

4. To Evaluate Greek classical thinkers in detail

5. To focuses on the concept of Rationalism and Conservatism and also concentrate on deconstruction and reconstruction of modernity.

6. To identify paradigm on civil liberty and Human Rights

22UPOLC34 –MODERN POLITICAL SYSTEMS-I

1. This course aims to trace the evolution of different world constitutions.

2. It also aims in analysing the approaches and models of systems analysis;

structural functionalism and institutional approach of different countries.

3. The course critically looking at the rights of the citizens of UK, USA, Switzerland.

4. This course exhibits the features of a liberal democratic and socialist political system with focus on UK, USA and the People's Republic of China

To have a clear understanding of the Executive, Legislature and Judiciary of select world constitutions

1. To explain various approaches of the study of political sociology

2. To acquaint students with the major concepts of political sociology

3. To help students gain an insights and process of social changes in India

4. To study different concepts of political sociology

To know the systems in Politics

1. To acquaint with forms of Government

2. To be aware of components of Governance

3. To learn about the issues related with governance

4. To analyze the role of political parties

5. To examine the impact of public opinion

22UPOLA35-1 – POLITICAL SOCIOLOGY

22UPOLA35-2 – ORGANS OF GOVERNMENT AND POLITICAL PROCESS

22UPOLA35-3 – COMPARATIVE GOVERNMENTS

1. To understand the importance of Comparison

2. To learn about various modes of administration in different nations

3. To have comprehensive understanding of administration

4. To compare the administration of various countries

5. To compare salient features of different constitutions

22UPOLE36-1– INDIAN GOVERNMENT AND POLITICS

1) To understand the working of parliament in India.

2) To know the functions of democratic system.

3) To grasp about the development of India

4) To know about the affairs of India with other Nations

5) To know the aspects of coalition era

22UPOLE36-2– Labour Welfare Administration

1. To enable the students to understand the basic features of labour welfare measures

2. To provide clear ideas on theoretical and legal framework

3. To learn about issues in labour welfare administration.

4. To know the methods in recruitment and training

To know the functioning of labour unions

22UPOLE36-3– INDIAN NATIONAL MOVEMENT

1. To understand colonialism and Imperialism

2. To know the impact of British rule in India

3. To analyze the freedom struggle by Indian leaders

4. To learn about different movements of pre-Independent India.

5. To know the role of moderates and extremists

22UPOLS37 –DISASTER MANAGEMENT

1. To provide basic conceptual understanding of disasters.

2. To understand approaches of Disaster Management

3. To build skills to respond to disaster

**22UPOLN38 –FUNDAMENTALS OF INDIAN
POLITY**

4. Explain disaster management theory (cycle, phases, risk, crisis, emergency, disasters, resilience)
5. Create Technological innovations in Disaster Risk Reduction: Advantages and problems
1. This course aims to making the students aware of the text of the constitution of India.
2. This course intends to imparts a comprehensive nature of Indian Constitution.
3. It focuses on the basic principles & Indian constitution such as the Preamble, Rights and Duties, citizen and political institution.
4. It gives an understanding about the union government in India
5. This course intends to examine the various constitutional issues in India

22UPOLC43 –CLASSICS: THIRUKKURAL

- 1) To explain social and secular views of Thiruvallur
 - 2) To enhance understanding of the concepts of social justice, good governance and righteous warfare
 - 3) To develop understanding the significance of morality in private life
 - 4) To Gain knowledge of universal principles of moral and politics, explained in Thirukkural
- To understand and gain knowledge on an ethical and moral living

22UPOLC44 –MODERN POLITICAL SYSTEMS –II

1. This course aims to trace the evolution of different world constitutions.
2. It also aims in analysing the approaches and models of systems analysis;
3. structural functionalism and institutional approach of different countries.
4. The course critically looking at the rights of the citizens of Sri Lanka, Singapore, Japan, Iran and Nigeria.
5. This course exhibits the features of a liberal democratic and socialist political system with focus on Sri Lanka, Singapore, Japan, Iran and Nigeria and south Africa.

To have a comparative study of the political systems of Sri Lanka, Singapore, Japan, Iran and Nigeria and south Africa

**22UPOLA45-1– INDIAN ADMINISTRATIVE
SYSTEM**

1. To understand the historical evolution and socio-economic, political, cultural and global context of Indian Administration;
2. To identify the transformative role of Indian Administration;
3. To make out the multi-dimensionality of problems and processes of Indian Administration.
4. To explore the origin of Indian administration
5. To study the union, state and local administrations

22UPOLA45-2– POLITICAL HISTORY OF INDIA

- 1) To explain about the events of ancient India
- 2) To learn various major dynasties like Mauryan, Kushan, Gupta, Harsha, Sultan and Mughals.
- 3) To study the Sangam Era especially about the imperial Cheras and Cholas
- 4) To know the East India Company's administration in India

To know the history of Taminadu

22UPOLA45-3– Peace and Conflict Studies

1. To know the importance of peace in the society
2. To know the causes of conflict and its resolutions

22UPOLE46-1– INTERNATIONAL ORGANIZATIONS

3. To understand the nature and types of terrorism
4. To explore the various types of violence
5. To know the definition and types of terrorism
1. To impart basic concepts of International politics.
2. To broaden the vision in the area of Organization
3. To acquire knowledge in the area of International affairs
4. To know about regional organizations.
5. To study the UN and its specialized agencies

22UPOLE46-2– POLITICAL ECONOMY OF INDIA

- 1) To learn about basics of political economy
- 2) To have a broad understanding about the Components of Political economy
- 3) To get acquaint with the impact of Economy upon politics
- 4) To understand the role of colonial rule in political economy

The study the relation between market and economy

22UPOLE46-3– DYNAMICS OF INDIAN DEMOCRACY

1. This course intends to impart a comprehensive nature of Indian Constitution
2. It focuses on the basic principles of Indian Constitution such as the Preamble, Rights and Duties, Citizen and Political Institution.
3. It concentrates in detail about the organization of Government at centre, state and local level.
4. This course highlights amendment procedures and law-making processes in India.

It tries to enact younger minds to understand the certain constitutional issues and major Supreme Court cases

22UPOLN47 –PARLIAMENTARY PROCEDURES IN INDIA

1. The course will introduce students to the role, processes, and political context of the Legislative Branch in state government.
2. To make to understand about the law-making procedures
3. To acquaint with the stages of the law-making
4. To educate about the role of electoral system in strengthening the participatory democracy

To illuminate the students on the parliamentary procedures since the meetings are carried out in a fair, orderly, and expeditious manner

22UPOLC51 –INDIAN POLITICAL THOUGHT

1. This course will be tracing the evolution of Indian political thought from ancient India to modern India.
2. To make broad understanding about Thinkers
3. To apprise about ideas and ideologies of great thinkers of Ancient and Early Modern Political Thinkers
4. This course will be analysing the Gandhian Movements such as the Khilafat, Sarvodaya, GramaSwraj, Non Cooperation, Civil Disobedience movements

5. To understand the essence of Indian Political thought in-depth

22UPOLC52: GOVERNMENT AND POLITICS OF TAMILNADU SINCE 1900

1. To understand the Tamilnadu state politics frame work and its problems.
 2. To know about Structure of the caste, languages and Ethics.
 3. To evaluate the crucial role played by the political parties in liberating the people from the clutches of cynicism
 4. To know the supremacy, empowerment and participation of people in the panchayati raj institutions
- This course also expose about the river water disputes and alternate to solve the issue.

22UPOLC53 –POLITICAL IDEOLOGIES

1. To educate students about different theories of modern era
2. To explain about justice and other related ideas
3. It will mitigate the better understanding of various Political Ideologies like Marxism, Liberalism, Socialism and Gandhism
4. Understanding of various concepts of Post-Modernism

Imbibe knowledge on various state and Economic Ideologies

22UPOLC54 –FOREIGN POLICY OF INDIA

1. To orient the Students about the Evolution of International Politics
 2. To profess the Theories involved on studying International Politics
 3. To impart the idea about how Balance of Power is maintained.
 4. To explain the Major Powers of the World and its evolution history
- To give a realistic feel of the major crisis that had happened so far

22UPOLE55-1– POLITICAL PARTIES, PRESSURE GROUPS AND PUBLIC OPINION

1. To know the nature of political parties in India.
 2. To understand the perspectives groups in India.
 3. To explain the meaning and characteristics of public opinion.
 4. To differentiate the between a pressure groups and a political policy.
- To study the Electoral Laws

22UPOLE55-2– NATIONAL SECURITY OF INDIA

1. To know fundamentals of security
2. To know the role of geography in security
3. To analyze India's strategic environment
4. To examine India's security environment
5. To study Internal threats to India's security

22UPOLE55-3– PUBLIC POLICIES IN INDIA

1. To know the structure of policy process
2. To explore the defense policy of India
3. To learn to analyse the policies
4. To examine the social welfare polices of India
5. To study India's industrial and other polices

22UPOLC61 –INTERNATIONAL RELATIONS

1. To educate about basic concepts of International politics
 2. To apprise about modern and as well as the traces of past happenings
 3. To study the major issues of World War I
 4. To study the major issues of World War II
- To evaluate the impact of refugees and terrorism in the international arena

22UPOLC62 – MODERN POLITICAL THEORY

1. To orient the Students about the objectives and growth of modern political analysis.
 2. To educate the student about importance of political sociology and political economy in analysing the political situation.
 3. To familiarize about the new processes, approaches and strategies that guide the students in studying political phenomena
 4. To Create awareness among students about Nationalism and State building processes
- To know about the Approaches and methods to study the discipline through Political realism, Pluralism and Worlds system's Model

22UPOLC63 –LOCAL GOVERNMENTS IN INDIA

1. To know the significance of local government in India

22UPOLC64 –LEGISLATIVE PROCEDURES

2. To understand various phases of development of local governance
 3. To increase knowledge of the local body elections
 4. To know about urban development projects
 5. To understand the issues in rural and urban local governments
1. The course will introduce students to the role, processes, and political context of the Legislative Branch in state government.
2. To make to understand about the law-making procedures
 3. To acquaint with the stages of the law-making
 4. To educate about the role of electoral system in strengthening the participatory democracy
 5. To illuminate the students on the parliamentary procedures since the meetings are carried out in a fair, orderly, and expeditious manner.
- To shed light on the parliamentary etiquette and privileges in view of the fact that it provides legal immunity for the members

22UPOLE65-1– ELECTORAL POLITICS IN INDIA

1. To know about the Electoral System in India
2. To identify the Electoral Politics in Indian democratic exercise.
3. To calculate the electoral process from since independence to current trends of General Election in India
4. To examine the Communalism in Indian Politics and to know the significance of voting behavior
5. To study the electoral patterns in different elections

22UPOLE65-2– ASIAN POLITICAL SYSTEMS

- 1) To know the political systems of Asia
- 2) To understand the functioning of Political systems of Asia
- 3) To study the features of Indian Constitution
- 4) To study the features of China and Japan Constitutions
- 5) To study the features of Malaysian Constitution

22UPOLE65-3– DEVELOPMENT ADMINISTRATION

1. To envisage evolutionary change of Public Administration and Administrative development
2. To give a knowledge about bureaucracy and its development to the students
3. To enhance the concept Liberalization Privatization Globalization in development Administration
4. To know the development administration
To study the issues in administration

22UPOLS66 -NGO MANAGEMENT

- 1) Know basic legal requirements affecting nonprofits.
 - 2) Know theories, methods, and practices for nonprofit organizations.
 - 3) Have the skills to participate strategically in nonprofit governance.
 - 4) Be able to design and assess the effectiveness of governance models, volunteer programs, organizational capacity, and inter-organizational relationships.
- Gain international perspectives on nonprofit organization management

22UPUBC13: PRINCIPLES OF PUBLIC ADMINISTRATION

1) To provide superior graduate education to students aspiring to or committed to public service careers.

2) To promote understanding of the political, social, legal and economic environments in which public organizations operate.

3) To provide understanding of, and insight into, the nature of the administrative process and bureaucratic behavior, leadership, and decision making.

4) To discuss the span of control and delegation of authority

To examine the Control over Public Administration

22UPUBC14: INDIAN CONSTITUTION

1) To learn about the British India Administration.

2) To understand the functioning of British empire and east India Company.

3) To get in depth knowledge about the federal system, secular system and fundamental rights and duties in the Indian Constitution.

4) To explain the Powers and functions of President and council of Ministers.

To get the concept of Judicial Review

22UPUBA15 -1: PRINCIPLES OF POLITICAL SCIENCE

1) To study about meaning, nature and scope of political science

2) To analyze the types of democracy and conditions required for the success of Democracy

3) To explain about the public opinion, pressure groups and Media and Peoples' Participation.

4) To discuss the political parties , public opinion and pressure groups

5) To examine the political parties in India

22UPUBA15 -2: LAW AND ORDER ADMINISTRATION

1) To define the Nature, Scope and importance of Police in India

2) To discuss the central police system, Armed, unarmed and auxiliary in police administration

3) To explain the police recruitment, training, promotions, retirement, pay and compensation and welfare activities

4) To analyze the Maintenance of Law and Order

To understand the Police Public Relations

22UPUBA15 -3: ISSUES IN PUBLIC ADMINISTRATION IN INDIA

1) To study the grievance redressed institutional mechanisms in Indian administration system.

2) To evaluate the welfare programmes implemented by state and union government

3) To understand the emerging issues in Indian administration

4) To examine the important role of civil society in administration

5) To discuss between bureaucrats and politicians relations

22UPUBS-16: PUBLIC RELATIONS

1) To Study of meaning, Definition and Concept of Public Relation

2) To understand the various forms of communication

3) To analysis the role of Public Relations Officer and Formulation of public opinion

4) To explain the Organizational Set-up of Public Relation agency and department

5) To discuss the Role of PR in private Sector

22UPUBC23: Administrative Thinkers - I

1) To analyze the historical development of public administration and the major thinkers.

2) To study the important contributions of Administrative thinkers.

3) To Provide high quality instruction about human relations approach

4) To understand the views on Luther Gulick, L. F. Urwick

To discuss the decision making process

22UPUBC24: INDIAN ADMINISTRATIVE SYSTEM

1) To explain ideas of Administration in Pre - colonial, Colonial and Post - colonial era

2) To enhance understanding of the concept of social Justice, good governance and righteous welfare.

3) To analyze the various activities done by the Indian Administration

4) To discuss the Impact of Information Technology on Indian Administration

5) To understand the Corruption- Administrative Reforms in India

22UPUBA25-1: INDIAN NATIONAL MOVEMENT

1) To describe the evolution and impact of British Rule in India

2) To discuss the view of Birth and Growth of Indian National Congress

3) To identify the causes of the Birth of the Revolutionary Movement and its aims

4) To analyze the critics of National Movements in India

5) To explain the Indian independence Act of 1947

**22UPUBA25-2: LABOUR WELFARE
ADMINISTRATION IN INDIA**

1) To explain the information about the concept of Labour Welfare and factories Act 1948

2) To attain the basic knowledge and concept of female laborer, child laborer and contract laborer

3) To learn about the Employee's State Insurance Act 1923 and the Employee's State Insurance Act 1948

4) To explain the Salient features of Trade Union in India

To understand the Industrial Democracy and Workers Participation in Management

22UPUBA25-3: NEW PUBLIC MANAGEMENT

1) To explain the features and definitions of new public management

2) To understand the challenges and reforms of new public management

3) To analyze the theoretical developments of new public developments

4) To discuss the Quasi Markets

5) To examine the new public management in developing countries

22UPUBS-26: NGO MANAGEMENT

1) To study about meaning, nature and importance of NGO

2) To discuss the society, trust and foreign regulations contribution act

3) To understand the NGOs in Local and Global context

4) To explain the government control over NGOs

5) To examine the government control over NGOs

22UPUBC-33 Administrative Thinkers – II

LO1. To analyze the historical development of public administration and the major thinkers.

LO2. To study the important contributions of Administrative thinkers.

22UPUBC-34 PUBLIC PERSONNEL ADMINISTRATION	<p>LO3. To Provide high quality instruction about human relations approach</p> <p>LO4. To discuss the human relation theory</p> <p>LO5. To understand the decision making theory</p> <p>LO1.To explain the nature and scope of public personnel administration</p> <p>LO2.To study the importance of merit system, spoils system and position classification</p> <p>LO3.To Provide high quality instruction about recruitment and methods of recruitment</p> <p>LO4. To understand the training for public services in India</p> <p>LO5.To discuss the Integrity in Administration</p>
22UPUBA 35-1 PRINCIPLES OF MANAGEMENT	<p>LO1.To explain the meaning, nature and scope of management</p> <p>LO2. Define the merits of management techniques</p> <p>LO3. To learning knowledge from the decision making</p> <p>LO4. To discuss the management information system</p> <p>LO5. To analyses the training and management development</p>
22UPUBA 35-2 CONTEMPORARY ISSUES IN WORLD AFFAIRS	<p>LO1.To develop a solid understanding of global governance.</p> <p>LO2.To analyze the contemporary political, economic and social issues in the world.</p> <p>LO3.To study the changing nature of world politics</p> <p>LO4.To provide an idea to anticipate the future of world politics</p> <p>LO5.To explain the terrorism and weapons of mass destruction</p>
22UPUBA 35-3 INTRODUCTION TO SOCIOLOGY	<p>LO1.To study the nature and scope of sociology</p> <p>LO2.To discuss the relationship of sociology with other social sciences</p> <p>LO3.To understand the social attitude – social change</p> <p>LO4.To describe the social control in modern society</p> <p>LO5.To explain the social control in modern society</p>
22UPUBE 36-1 SOCIAL WELFARE ADMINISTRATION IN INDIA	<p>LO1.To know the state and central administration.</p> <p>LO2.To increasing importance given to this area of governmental activity</p> <p>LO3.To understand the social welfare administration and department of social welfare</p> <p>LO4.To analyze the social welfare policy and implementation of the policy</p> <p>LO5.To explain the WHO, UNESCO, UNICEF</p>
22UPUBE 36-2 PEACE AND CONFLICT MANAGEMENT	<p>LO1.To discuss the meaning of peace and meaning and types of conflicts</p> <p>LO2.To understand the signification of the religion and peace</p> <p>LO3.To analyze peace education and peace action-peace movement.</p> <p>LO4.To explain the types of satyagraha and shanti sena</p>

22UPUBE 36-3 PUBLIC SERVICE MANAGEMENT	<p>LO5.To examine the satyagraha as a technique in conflict resolution</p> <p>LO1.To explain the public service management</p> <p>LO2.To analyze the privatization of public services</p> <p>LO3.To describe the basic assumptions of public service management</p> <p>LO4.To understand the objectives and goals of public service management</p>
22UPUBS -37 DISASTER MANAGEMENT	<p>LO5. To discuss the electronic software distribution</p> <p>LO1.To understand medical and psycho-social response to disasters.</p> <p>LO2. To discuss the control public health consequences of disasters</p> <p>LO3.To enhance awareness of disaster risk management institutional processes in India.</p> <p>LO4.To build skills to respond to disasters</p> <p>LO5.To explain the education and awareness</p>
22UPUBN - 38 LEGISLATIVE PRACTICE AND PROCEDURES	<p>LO1.To understand the political system of India</p> <p>LO2.To apply the knowledge of Legislative procedures of Union and State Governments of India</p> <p>LO3.To analyze the efficiency of Indian Legislative systems in Union and State level government systems.</p> <p>LO4.To explain the Budget in Parliament of India</p> <p>LO5.To discuss the Speaker and Deputy Speaker in India</p>
22UPUBC43 ADMINISTRATIVE LAW	<p>LO1.This paper introduces the students about the legal requirements of the officers and also citizens when they interact each other.</p> <p>LO2.The administrative law deals with the laws relating to administration citizens' rights and obligations and scope of the judicial review of administrative actions.</p> <p>LO3.Functions of the Administration will be analyzed.</p>
22UPUBC44 DECENTRALISED ADMINISTRATION IN INDIA	<p>LO4.To support State employees to perform their roles, to make decisions independently,</p> <p>LO5.To innovate and improve service delivery without the concern of being sued and the accompanying financial risk, by providing an enhanced protection from civil liability</p> <p>LO1. To know the significance of Local Government in India</p> <p>LO2. To understand various phases of development of local governance</p> <p>LO3. To in depth knowledge of the local body elections</p> <p>LO4. To analyze the Rural and Urban Development Projects</p>
22UPUBA 45-1: ADMINISTRATION OF INTERNATIONAL ORGANIZATION	<p>LO5. To explain the Role of bureaucracy in rural and urban local government</p> <p>LO1. To know the significance of Administration of International Organization</p> <p>LO2.To understand the General Assembly</p> <p>LO3.To in depth knowledge of the International Agencies Related To Trade.</p>

**22UPUBA 45-2 LABOUR & INDUSTRIAL LAW
MANAGEMENT**

- LO4.** To analyze the International Red Cross Society.
- LO5.** To study about the Regional Alliance
- LO1.** To know the significance of Labour & Industrial Law Management
- LO2.** To understand the Role of Labour Welfare officers.
- LO3.** To in depth knowledge of the Social Security measures undertaken in India.
- LO4.** To analyze the deductions under the Act.
- LO5.** To study about the Authorities under the Act

22UPUBA 45-3 PUBLIC ENTERPRISES IN INDIA

- LO1.** To know the significance of Public Enterprises in India.
- LO2.** To understand the Professionalization of Boards of Governance in India.
- LO3.** To in depth knowledge of Pricing Policy and Practices
- LO4.** To analyze the Public Sector Reforms including Memorandum of Understanding
- LO5.** To study about the Public Relations and the Consumer

22UPUBE 45-1: POLICE ADMINISTRATION

- LO1.** To know the significance of Police Administration
- LO2.** To understand the Approaches to Police Administration
- LO3.** To in depth knowledge Police in Union Territories.
- LO4.** To analyze the Police Organization in India Central Police system.
- LO5.** To study about the Police Behaviour Autonomy.

22UPUBE 45-2 STATE POLITICS IN INDIA

- LO1.** To know the significance of State as units of Politics.
- LO2.** To understand the Electoral and Party Politics.
- LO3.** To in depth knowledge All India and State Parties.
- LO4.** To analyze the Coalition Politics in India.
- LO5.** To study about the Politics of Language

**22UPUBE 45-3 PRINCIPLES AND THEORY OF PUBLIC
ADMINISTRATION**

- LO1.** To know the significance of Principles and Theory of Public Administration.
- LO2.** To understand the Public Administration.
- LO3.** To gain in-depth knowledge on Theories of Organization.
- LO4.** To analyze the Organization of Public Administration.

22UPUBN47 URBAN PLANNING AND DEVELOPMENT

- LO5.** To study about the Development of leadership
- 1) **LO1.** To understand the urban planning is most important for developing the urban
- 2) sectors.
- 3) **LO2.** To enable the students have to develop the skills in sustainable development.
- 4) **LO3.** To find that the reason why those people are moving towards the urban
- 5) sectors.
- 6) **LO4.** To analyze the Urban development programmes.

22UPUBC 51 HUMAN RESOURCE MANAGEMENT	<p>LO5. To study about the Ministry of Housing and Urban Affairs</p> <ol style="list-style-type: none"> 1) LO1. To know the significance of Human Resource Management. 2) LO2. To understand Human Resource Development. 3) LO3. To in depth knowledge of the Work Measurement. 4) LO4. To analyze the Personnel Management.
22UPUBC 52 FINANCIAL ADMINISTRATION IN INDIA	<p>LO5. To Study about the Human Resource Development</p> <p>LO1. To know the significance of Public financial administration</p> <p>LO2. To understand British budgetary system</p> <p>LO3. To in depth knowledge of the American budgetary procedure</p> <p>LO4. To analyze the Salient features of American budgetary system</p> <p>LO5. To Study about the Salient features of Indian budgetary system</p>
22UPUBC 53 COMPARATIVE CONSTITUTIONS	<p>LO1. To know the significance of Modern Western Governments</p> <p>LO2. To understand Non-Parliamentary forms of Government</p> <p>LO3. To in depth knowledge of the Federal System</p> <p>LO4. To analyze the Salient features of the Constitution</p> <p>LO5. To Study about the USA Salient features of the Constitution</p>
22UPUBC 54 HUMAN RIGHTS	<p>LO1. To know the significance of Human Rights</p> <p>LO2. To understand Classification of Human Rights</p> <p>LO3. To gain in-depth knowledge on the Universal Declaration of Human Rights</p> <p>LO4. To analyze the International Covenant on Economics</p> <p>LO5. To Study about the National Commission on Human Rights</p>
22UPUBE 55-1 FOUNDATION OF HUMAN RELATIONS	<p>LO1. To know the significance of Foundation of Human Relations.</p> <p>LO2. To understand Essentials of Human relations</p> <p>LO3. To in depth knowledge of the Dissociative Social Process:</p> <p>LO4. To analyze the How to measure Organization culture</p> <p>LO5. To Study about the Work and Social capital</p>
22UPUBE 55-2 ELECTORAL POLITICS IN INDIA	<ol style="list-style-type: none"> 1) LO1. To explain to the students about electoral process in India, considered as a significant event in India's Democratic exercise. 2) LO2. Issues pertaining to Electoral process in India, people's participation in electoral process 3) LO3. Issues involved in electoral process are also discussed detailed in this paper 4) LO4. To discuss the Electoral Politics since 1996
22UPUBE 55-3 GLOBALIZATION AND DEVELOPMENT	<ol style="list-style-type: none"> 1) LO1. To familiarize the students with the Globalization and its implications. Specific Objectives of Learning

	<p>2) LO2. To provide a perspective on the broad aspects and institutions of globalization.</p> <p>3) LO3. To enable the students to understand the implications of Globalization for third world development</p> <p>4) LO4. To sensitize the students on issues affecting poor in the context of globalization.</p> <p>5) LO5. To explain the People and Self Governance in the era of globalization Right for Self governance</p>
22UPUBC 61 PUBLIC POLICY ANALYSIS	<p>1) LO1. To know the significance of Public Policy Analysis</p> <p>2) LO2. To understand Characteristics and type of Public Policy</p> <p>3) LO3. To gain in-depth knowledge on the Political and Administrative constraints in Public Policy making</p> <p>4) LO4. To analyze the Limits of Policy Analysis.</p> <p>LO5. To Study about the Policy Making in India Process</p>
22UPUBC 62 E-GOVERNANCE IN INDIA	<p>LO1. To know the significance of E – Governance In India</p> <p>LO2. To understand Traditional Model of Bureaucracy</p> <p>LO3. To in depth knowledge of the Need for re-engineering government processes</p> <p>LO4. To analyze the National E-Governance Plan</p> <p>LO5. To Study about the Administrative Orientation</p>
22UPUBC 63 DEVELOPMENT ADMINISTRATION	<p>LO1. To know the significance of Development Administration</p> <p>LO2. To understand context of Development Administration</p> <p>LO3. To gain in-depth knowledge of the International Monetary Fund</p> <p>LO4. To analyze the Area Development Program</p> <p>LO5. To Study about the Media and Development Administration</p>
22UPUBC 64 PRINCIPLES OF RURAL DEVELOPMENT	<p>1) LO1. To explain the Concept and Dimensions of Poverty</p> <p>2) LO2. To discuss the Decentralized Planning and its relevance</p> <p>3) LO3. To analyze the Poverty alleviation measures pursued in India</p> <p>4) LO4. To understand the Constraints in Empowerment.</p> <p>5) LO5. To examine the Relevance of PRA in Rural Development</p>
22UPUBE 65-1 FISCAL FEDERALISM	<p>1) LO1. To know the Fiscal Federalism</p> <p>2) LO2. To understand Economic Determinants of Fiscal Federalism</p> <p>3) LO3. To in depth knowledge of the Impact of Fiscal Policy on Stability</p> <p>4) LO4. To analyse the approach to Restructuring of Fiscal Federalism in India</p> <p>LO5. To Study about the Role and Objective of Public Debt Management</p>
22UPUBE 65-2 ACCOUNTABILITY AND CORRUPTION IN INDIA	<p>LO1. To know the Accountability and Corruption in India.</p> <p>LO2. To understand Consequences of corruption and its Remedies</p> <p>LO3. To in depth knowledge of the Corruption in Judiciary</p>

22UPUBE 65-3 ORGANIZATIONAL BEHAVIOUR

LO4. To analyze the approach to Corruption in Bureaucracy

LO5. To Study about the Steps against Black Money

LO1. To know the Organizational Behaviour

LO2. To understand Organizational goals & individual goals

LO3. To in depth knowledge of the Interpersonal cooperative behavior

LO4. To analyze the approach to Characteristics of Attitude

22UPUBS 66 TOURISM MANAGEMENT

LO5. To Study about the Determinants of personality

1) **LO1.** To know the Tourism Management

2) **LO2.** To understand Difference between travel and tourism

3) **LO3.** To gain in-depth knowledge on the Economic Impacts of Tourism

4) **LO4.** To analyze the Tourism versus development policy

LO5. To Study about the process of Advertising Tourism

B.COM

22UCOMC13: FINANCIAL ACCOUNTING - I

1) To acquaint a strong basic knowledge on Principles and practical applications of Double entry system of accounting.

2) To gain expertise in the preparation of the Final Accounts as per the Accounting Standards

3) To provide knowledge on accounting for Depreciation

4) To inculcate the knowledge on Bills of Exchange and Bank Reconciliation Statement

5) To give insights about the preparation of Single-Entry System and its conversion into double entry system of accounting

22UCOMC14: BUSINESS ORGANISATION

1) To understand the concept of business and profession

2) To identify the different forms of business organization

3) To analyse the factors influencing the business location.

4) To appraise the working of chamber of commerce and trade associations

To evaluate the difference between IC, MNC, GC and TNCs6)

COMPUTER APPLICATION IN BUSINESS

1) To acquire and apply the computer applications in different aspects of business

2) To get an insight knowledge on Ms-office, Ms-excel.

3) To know the database maintenance in every type of applications.

4) To analyse the various types of charts in Ms.Excel

5) To develop the programs in Ms-word and Ms-excel.

22UECOA01: BUSINESS ECONOMICS- I

1) To expose students to economic concepts and analytical approach.

2) To make them understand the role and responsibilities of business.

3) To make them to apply economic concepts in decision making.

22UBUMA01: BUSINESS MATHEMATICS	<p>4) To make them acquire knowledge about economic concepts which are used in business.</p> <p>To make them apply economic concepts to different economic and business conditions</p> <p>The course aim is to introduce the concepts of operations on set and applications, to study the characteristic of analytical geometry, differential calculus, matrices and commercial arithmetic</p>
22UCOMA02: CONSUMERISM	<p>1) To make students to acquire knowledge of consumerism.</p> <p>2) To understand the fundamentals of Consumerism.</p> <p>3) To know the Consumer Protection Act, 1986 and Consumer Protection Act 2006 (Amendments.)</p> <p>4) To gain knowledge Consumer Protection Council.</p>
22UCOMS17: PRINCIPLES OF MARKETING	<p>To enable the redressal of consumer grievances</p> <p>1) To conceptualize an idea about marketing and related terms</p> <p>2) To provide insight about various forms and types of marketing</p> <p>3) To analyze various components of Promotion</p> <p>4) To understand various concepts relating to Pricing</p> <p>5) To introduce the components of marketing mix</p>
22UCOMC23: FINANCIAL ACCOUNTING - II	<p>1) To give an insight about Account Current and Average Due Date</p> <p>2) To understand the branch accounts and its types</p> <p>3) To have practical knowledge in the preparation departmental accounting</p> <p>4) To familiarize with accounting procedure on Partnership – Admission and Retirement</p> <p>5) To acquire practical knowledge in Partnership accounts on Dissolution</p>
22UECOA03: BUSINESS ECONOMICS II	<p>1) To make students to understand about the cost and revenue concepts</p> <p>2) To make them understand pricing under different market structures</p> <p>3) To give them knowledge about theories of distribution</p> <p>4) To make them understand the different pricing methods</p> <p>5) To make them understand the techniques of capital budgeting</p>
22UCOMA06: BRAND MANAGEMENT	<p>1) To understand the concepts, importance and characteristics of brand</p> <p>1) To develop and establish the brand positioning</p> <p>2) To assess the application of brand identify, brand image and brand loyalty.</p> <p>3) To evaluate the brand extension opportunities.</p> <p>To measure the sources and outcome of brand equity</p>
22UCOMA09: INVESTMENT MANAGEMENT	<p>1) To enable the students to apply various tools and techniques of Investment and risk management.</p> <p>1) To provide knowledge on various investment avenues that benefits the individual and nation</p> <p>2) To provide knowledge on security investment</p> <p>3) To provide knowledge on Risk and return</p> <p>4) To provide knowledge on Fundamental Analysis of investment</p>

22UCOMS26: Advertising and Salesmanship

- 1) To understand the concept of advertising
- 2) To enable the students to have practical knowledge about advertising agencies
- 3) To familiarize about recent trends in advertising
- 4) To have knowledge on fundamental concept of salesmanship
- 5) To understand the duties and responsibilities of salesmanship

22UCOMC33: CORPORATE ACCOUNTING I Core Course VI

- 1) To help the students to understand the basic concepts relating to issue and redemption of shares
- 2) To enable the students to prepare company final accounts and to understand accounting treatment on acquisition of business
- 3) To gain knowledge on profit on incorporation
- 4) To gain knowledge on final accounts
- 5) To gain knowledge on acquisition of business

22UCOMC34: BUSINESS COMMUNICATION Core Course VII

- 1) To acquire knowledge about basic concepts of business Correspondence
- 2) To acquire knowledge about business communication
- 3) To understand structure and layout business letter
- 4) To acquire the knowledge of types of business letter
- 5) To gain knowledge about the Letters of Application with CV, Resume

22UCOMA03: Business Environment

- 1) To know and analysis different business environment.
- 2) Conduct a business analysis of the local environment.
- 3) Understand the major problems in Indian Economy.
- 4) Know about five year planning and LPG on different sectors.

Explain the concept of social and political responsibilities of Business

22UCOMA36: PRINCIPLES OF INSURANCE

- 1) To educate students about the significance and purpose of insurance.
- 2) To enable the Knowledge about the Insurance.
- 3) To acquire skills about the Life Insurance and its types.
- 4) To know about the Fundamental principles of fire insurance.

To enhance knowledge about the Fundamental principles of marine insurance

22UCOME37-1: BUSINESS LAW Internal Elective I

1. To understand the concept of Law.
2. To identify the various requisites of valid Contract & practices in the field of Law
3. To gain knowledge of various special contracts.
4. To apply the concepts of sale according to Sale of Goods Act.

To follow the latest Consumer Protection Act for filing and redressal process

22UCOME37-2: FINANCIAL SERVICES Internal Elective I

COURSE OBJECTIVES

- 1) To enable the students to gain knowledge of business financial services.
- 2) To come know about various leasing finances hire purchase system.

	<ul style="list-style-type: none"> 3) To understand about the factoring services. 4) To explore the knowledge about venture capital and its legal aspects and criteria. 5) To enhance the knowledge about mutual funds and various credit rating agencies
22UCOME37-3: MODERN BANKING Internal Elective I	<ul style="list-style-type: none"> 1) 1.To enable the student to learn the concept of Banking system in India and various financialservices. 2) To understand the various banking operation. 3) To provide insight of modern banking function. 4) To understand the economical function which affect the bank. <p>To understand the concepts of Demonetization</p>
22UCOMN38: ELEMENTS OF ACCOUNTING Non Major Elective I	<ul style="list-style-type: none"> 1. To facilitate the non- commerce students to have a basic knowledge in Book-Keeping and Accounting. 2. To provide basic knowledge on basis of accounting 3. To provide basic knowledge on subsidiary books 4. To provide knowledge on error on accounting 5. To provide basic knowledge on financial accounts
22UCOMC43: CORPORATE ACCOUNTING II CORE COURSE X	<ul style="list-style-type: none"> 1) To enable the students to acquire knowledge in valuation of shares and goodwill 2) To enable the students to understand the Liquidation, accounting procedure and various 3) business combinations 4) To enable students to understand the concepts of amalgamation merger 5) To understand about the holding company 6) To understand about the banking company accounts
22UCOMC44: Company law & Secretarial Practice CORE COURSE XI	<ul style="list-style-type: none"> 1) To enlighten the student's knowledge on Companies Act 2) To provide the learners an insight about Company Secretarial Practices. 3) To make the students understand the role of Company Secretary towards Company's 4) statutory provisions, rules and regulations. 5) To make the learners understand the various aspects of Company Management, meetings and reports. 6) To understand about company secretary ship. <p>The objectives of this course are</p>
22UCOMA29: OFFICE MANAGEMENT	<ul style="list-style-type: none"> 1. To Acquire the knowledge of office Management 2. To Know about the office layout 3. To G ain knowledge on indexing and filing 4. To Know the importance of office communication 5. To know about office supervisor
22UCOMA30: EXPORT TRADE AND DOCUMENTATION Allied Course IV	<ul style="list-style-type: none"> 1. To understand about import and export 2. To gain knowledge on licensing 3. To know the various trade agreements 4. To know the uses of special economic zone 5. To find out the different types of financial and approval bodies
22UCOME47-1: Innovation Management Internal Elective II	<ul style="list-style-type: none"> 1) To help students understand, describe and explain the phenomenon of Innovation. 2) To present students a toolkit to successfully navigate complex landscape that surrounds the innovation process. 3) To reap in the economic benefits of new technological inventions by commercializing them on time 4) To accomplish technology Transfer

**22UCOME47-2 : BUSINESS STATISTICS INTERNAL
ELECTIVE II**

- To reduce new product development time
- 1) To develop skills in analysis and interpretation of data
 - 2) How to measure Central Tendency and their application in business
 - 3) Students familiarize about measure of dispersion.
 - 4) To measure the degree and direction of relationship between the variables in business
 - 5) Index Numbers and Time series are the most important widely used statistical device, students get familiarize

**22UCOME47-3: BUSINESS MANAGEMENT INTERNAL
ELECTIVE -II**

- 1) To familiarize the students with the concepts and principles of management
- 2) To provide opportunities to apply the general functions of management in day
- 3) To provide knowledge on the concept of organizing
- 4) To provide the skill of Decision Making
- 5) To know about the skill of leadership

**22UCOMN48: PRINCIPLES OF COMMERCE Non Major
Elective II**

1. To familiarize non-commerce students with the principles of commerce
2. To acquaint and equip the students with the latest knowledge in the field of Commerce;
3. To prepare Students for higher studies in Commerce;
4. To take a job in the trade/finance, insurance organizations and industry with basic Commercial know-how;
5. To impart the students the basic requirements to enable them to take up Business as a career.

22UCOMC51: COST ACCOUNTING I CORE COURSE XII

- 1) To understand the basic concepts and methods of Cost Accounting.
- 2) To enable the students to learn the various methods of cost elements.
- 3) To understand the basic concepts and processes used to determine product costs.
- 4) To be able to interpret cost accounting statement.
- 5) To be able to analyze and evaluate information for cost ascertainment, planning, control and decision making.

**22UCOMC52: Income Tax Law and Practice I CORE
COURSE IX**

- 1) To acquire Knowledge of Different Income Tax Concepts
- 2) To Overcome the Scarcity of Capital, Taxes are regarded as effective means to Control Inflation
- 3) To Control Cyclic Fluctuations
- 4) Apply Income Tax provisions for Tax planning
- 5) To understand the computation of salary income

Digital Marketing Theory CORE PRACTICAL III

- 1) To Understand the concepts and types of digital marketing
- 2) Explain various marketing strategies in an online environment
- 3) Apply the underlying principles of search engine optimization and web analytics
- 4) To know the marketing strategies on social media
- 5) To use communication devices for marketing

**22UFCOME55-1: Working Capital
MANAGEMENT INTERNAL ELECTIVE III**

- 1) To understand the concept and factors of working capital.

	<ul style="list-style-type: none"> 2) To analyze the Account Receivables Management & Credit policy. 3) To identify Inventory Management process & techniques. 4) To enhance the knowledge approaches & sources of finance.
22UCOME55-2: Practical Auditing INTERNAL ELECTIVE III	<p>To identify the Cash balance & budget</p> <ul style="list-style-type: none"> 1) Understand the meaning, types of audit, and difference between auditing and book keeping. 2) Know the meaning of internal control, internal check and audit. 3) Identify different types of vouchers. 4) Understand qualification, Duties, Rights, and different types of auditors. <p>Identify Meaning, Features & Qualifications of Cost and Management auditor and audit reports</p>
22UCOME55-3: Principles OF COOPERATIVE SOCIETIES INTERNAL ELECTIVE III	<ul style="list-style-type: none"> 1) To know the structure and functions Cooperative Finance and Banking Institutions 2) To enable the students to understand the fundamentals in management, 3) To enable the students to understand the fundamentals in, decision making 4) To enable the students to understand the fundamentals in execution aspects in cooperative enterprises <p>To Describe the management structure of cooperatives and their functions and powers</p>
22UCOMS56: E-COMMERCE SKILL BASED COURSE III	<ul style="list-style-type: none"> 1) To impart the students with knowledge of web technology and their role in doing business. 2) To gain knowledge on E-Marketing. 3) To gain knowledge on E-Payments. 4) To caliburize the students regarding Electronic Data Interchanges. <p>To help the students to Gain an understanding of the legal frame work of E-commerce.</p>
22UCOMC61: COST ACCOUNTING II CORE COURSE XV	<ul style="list-style-type: none"> 1) To make the students to understand the process of ascertaining, classification and controlling cost. 2) To facilitate the preparation of financial and other statements 3) To Understand the Transport Costing 4) To Understand the standard costing 5) To enable the students to understand the reconciliation statement
22UCOMC62: Income Tax Law and Practice II CORE COURSE - XVI	<ul style="list-style-type: none"> 1) Identify the assessment procedures. 2) Apply set off and carry forward provisions. 3) Assess income tax liability 4) Identify the agriculture income 5) Identify the sources of income of individual
22UCOMC63: Management Accounting CORE COURSE - XVII	<ul style="list-style-type: none"> 1) To enlighten students on Financial Statement Analysis with the emphasis on the preparation of fund flow and cash flow statement 2) To impart knowledge of financial statements and their analysis and interpretations 3) To emphasize on application of theoretical knowledge and help managers in decision making 4) To familiarize the students with managerial financial decisions which are taking place in organizations. 5) To acquire the importance of financial information for decision making process

**22UCOMP64: Digital Marketing Practical CORE
PRACTICAL III**

- 1) To identify the concepts and techniques of digital marketing
- 2) To determine the strategies of digital marketing..
- 3) To describe the determinants of digital marketing process
- 4) To assess the ethical and legal aspects of digital marketing
- 5) To evaluate social media, video and mobile marketing from ethical perspective.

**22UCOME65-1 :HUMAN RESOURCE MANAGEMENT
INTERNAL ELECTIVE IV**

- 1) To introduce the concepts of Human resource management
- 2) To introduce the concepts of Human resource Planning
- 3) To introduce the concepts of recruitment and selection
- 4) To understand the methods of training.
To understand the concepts of selection

**22UCOME65-2: GOODS AND SERVICE TAX INTERNAL
ELECTIVE IV**

- 1) To understand the applicability of indirect taxes in India
- 2) To familiarize with the calculation and execution of goods and service tax in India
- 3) To understand the working of custom law in India
- 4) To understand the process of GST Registration
- 5) To understand the concepts of input taxes

**22UCOME65-3: FINANCIAL MANAGEMENT
INTERNAL ELECTIVE IV**

- 1) To familiarize the students with the principles and practices of financial management
- 2) To understand the concept of Capital budgeting
- 3) To familiarize the various methods of Capital structure
- 4) To Maximize the Cost of Capital by Developing a Sound and Economical combinations of Corporate Securities
Proper Estimation and Requirement for Expansion and Growth

**22UCOMS66: Customer Relationship
MANAGEMENT SKILL BASED COURSE IV**

- 1) To understand the Basic Concepts about the Customer Relationship Management.
- 2) To get acquainted with the knowledge about E-CRM.
- 3) To understand the Customer data base
- 4) To procure ideas about complaint redressal methods
To highlight the significance of Customer satisfaction

B.B.A

22UBBAC13: PRINCIPLES OF MANAGEMENT

- 1) To familiarize the students with principles of management concepts.
- 2) To provide an insight about the management functions of planning, organizing, staffing, directing & controlling.
- 3) To enumerate the importance of organizing and organizational structure.
- 4) To make them understand on the importance of HR practices and motivation.
To enable them to understand the techniques of co-ordinations

22UBBAC14: FINANCIAL ACCOUNTING

- 1) To inculcate basic accounting concepts and postulates

22UBBAA15-1: PRINCIPLES OF BANKING SYSTEM

2) To understand how trial balance helps to check accuracy in the ledger positioning

3) To provide wide knowledge about final accounts

4) To understand the meaning of depreciation and methods of charging depreciation

To build a base income and expenditure & receipts and payment accounts

1) To assist the students in understanding the basic concepts in banking.

2) To enumerate the precautions to be taken by the bank while disclosing the customer information.

3) To acquaint learners with the importance and functions of RBI, commercial and private sector banks in India.

4) To enlighten learners with the meaning of negotiable instrument and cheque.

5) To accustom the recent trends in banking services.

22UBBAA15-2: CONSUMER BEHAVIOUR

1) To enable the students to learn the basics of consumer behaviour

2) To understand consumer motivation and perception

3) To learn consumer learning and attitude

4) To learn consumer decision making process

22UBBAA15-3: BUSINESS ECONOMICS

1) To introduce students to the basic elements of business and economics.

2) To identify various market structures relevant for commercial transactions and their impact on business decisions.

3) To illustrate what elements are considered while policy and decision making at the strategic level.

4) To analyze operations of markets under varying competitive conditions and make optimal business decisions.

The emphasis is on explaining how tools of standard price theory can be employed to formulate a decision problem, evaluate alternative courses of action and finally choose among alternatives

22UBBAS16: SALESMANSHIP

1) To provide the students with various duties and responsibilities of salesman.

2) To learn importance of sales presentation and sales aids.

3) To enable them to analyse sales forecasting and its methods.

To help them to know the factors affecting sales decision

22UBBAC23: BUSINESS ENVIRONMENT

1) To enable the students to understand the nature of business and its environment.

2) To know how economic culture, culture systems influence organizations

3) To understand how government pertaining to business have an influence on an organization

4) To understand how privatization and globalization affects organizations

To enable the students to examine and evaluate the business economic systems

22UBBAA25-1: PRINCIPLES OF INSURANCE

1) To enable the knowledge about the insurance.

2) To acquire skills about the life insurance and its types.

**22UBBAA25-2: CUSTOMER RELATIONSHIP
MANAGEMENT**

3) To know about the fundamental principles of fire insurance.

4) To learn about the fundamental principles of marine insurance.

To gain insights in e-insurance

1) To understand the significance of customer satisfaction, how CRM enhance customer satisfaction, how customer loyalty benefits companies and how CRM help in marketing.

1) To enable students learn various stages of CRM, factors that drive CRM, benefits and growth of CRM market in India.

2) To understand what CRM program is, to know the groundwork required for effective use of CRM, to know various components of CRM and types of CRM.

3) To understand processes that involve in CRM to get customers and maintain a relationship with them.

Students will learn how to facilitate CRM processes and procedures while integrating with other business workflows

1) To promote the ability to understand the basic concepts of economics.

1) To give students the capacity to make relevance of economics in business decisions.

To equip them with economic tools for business analysis

1) To impart knowledge to develop the presentation skills.

2) To help the students to make their presentations effectively.

To learn about the fundamental presentation skills

**22UBBAC33: BUSINESS MATHEMATICS &
STATISTICS - II**

1. To make the students to understand the basic operations of Matrices.

2. To enable the students to understand the Mathematical tools applicable in Managerial decision making & problem solving

3. The course will also serve the students in understanding sampling and correlation co-efficient

22UBBAC34: ORGANISATIONAL BEHAVIOUR

1. To understand the significance of Organizational Behavior, its historical development and how an organization functions as a social system with an open influences from outside the organizations.

2. To learn the dynamics of groups in the organization: formation of groups - group characteristics - theories of group dynamics - types of groups in organization - group cohesiveness - factors influencing group cohesiveness - group decision making process - small group behavior.

3. To understand the importance of leadership and motivation in organizations: characteristics of leaders, theories and styles of leadership.

4. To know how organizational culture, organizational climate and conflicts influence the functioning of an organization

To know the importance of management of change in organizations. Resistance to change - concepts of social change and organizational development.

1. Understand the basic concept and elements of cost.

22UBBAA35-1 :COST ACCOUNTING

2. The student to gain the knowledge of the purchase procedure and inventory.
3. To use accounting method for cost Calculation.
4. To keep a Systematic record of financial statement.

The students to determine the unit cost

1. To introduce the concept of quality in production including total quality in business Management.

22UBBAA35-2: TOTAL QUALITY MANAGEMENT

2. To give the students an overview of quality and TQM and explaining the salient contributions of Quality Gurus like Deming, Juran and Crosby. General barriers in implementing TQM.

3. Exposure to students on the basic and new seven management tools, Quality concepts like Six sigma, Failure mode effect analysis.

4. Detailed exposure to students on various quality systems like ISO and its standards.

5. To gain knowledge about quality aspects

1. To demonstrate understanding and recognition of the requirements of the contract agreement, contract consideration and capacity and genuineness of assent in contract formation.

2. To identify the fundamental legal principles behind performance of contract.

3. To demonstrate an understanding of the legal knowledge to business transaction.

4. To expose the students to legislations relating to sales.

5. To understand commercial contracts transactions and payment methods.

6. To understand international sales and international payment methods.

7. To study the legal concepts those are vital for every one while doing any business.

8. To create the knowledge of Legal perspective and its practices to improvise the business.

1. To understand the concepts and basic functions of Communication.

2. To identify the various levels of organizational communication and its process.

3. To train the students in effective business writing.

4. To draft effective business correspondence with clarity.

To have knowledge of the various traditional and modern equipments used for communication

22UBBAE36-1: BUSINESS COMMUNICATION

22UBBAE36-2: ADVERTISING AND SALES PROMOTION

1. To enable the students to learn the fundamentals of advertising and its strategies.

2. To analyze the creative strategies used in different advertising campaigns and be able to apply the basic principles in designing advertising programs for a given brand or product.

3. To introduce the students to the concepts of media planning and measuring effectiveness of different media.

4. To identify the importance of sales management and salesman oriented promotion techniques.

22UBBAE36-3: BUSINESS ORGANISATION	<p>5. To study the various techniques of sales promotion.</p> <p>1. The course aims to provide the basic concept and knowledge with regard to business enterprises and its functional areas.</p>
22UBBAN37: MANAGEMENT CONCEPTS	<p>2. To know about Business Ethics</p> <p>3. To understand the various forms of Business.</p> <p>4. To know about various types of companies to start an organisation</p> <p>To create the Knowledge about Business</p> <p>1. To make students understand the basic concepts and principles of management</p>
22UBBAC43: PRODUCTION MANAGEMENT	<p>2. To help them acquire the skills needed to become a successful manager</p> <p>3. To enable them to understand the various processes of the management</p> <p>1. To understand the fundamentals of production management.</p>
22UBBAC44: HUMAN RESOURCE MANAGEMENT	<p>2. To know work study and work measurement.</p> <p>3. To understand technique of location and facility planning.</p> <p>4. To know about Production planning and control.</p> <p>5. To understand the quality control and standardisation.</p> <p>1. To understand the concepts and basic functions of Human Resource Management.</p>
22UBBAA46-1: MANAGEMENT ACCOUNTING	<p>2. To learn the implementation of employee recruitment and selection processes.</p> <p>3. To acquire knowledge in the training needs and methods.</p> <p>4. To understand the need and methods of performance appraisal.</p> <p>5. To analyse the key issues related to Compensation, Mentoring, Career Planning, Promotion, Transfers and Termination.</p> <p>1) To understand the nature and scope of management accounting</p>
22UBBAA46-2: TRAINING AND DEVELOPMENT	<p>2) To gain knowledge in the preparation of financial statement analysis, marginal costing, budget, working capital, standard costing and</p> <p>To utilize the management tools and techniques to take appropriate financial decisions.</p> <p>1. To know the in-depth understanding of the role of training.</p>
22UBBAA46-3: SAFETY MANAGEMENT	<p>2. To know the methods of training.</p> <p>3. To understand the concepts of career development .</p> <p>4. To know the institutions offering training programmes in India.</p> <p>To know the important concepts used in management development and process and MD programme</p> <p>1. To understand the zero accident and zero pollution concept in safety</p> <p>2. To enable the student to prepare safety - visual controls and visual management.</p> <p>3. To understand the need for identification and eliminate near-miss cases.</p> <p>4. To understand the importance of safety systems and procedures - safety training and awareness in the work area.</p> <p>To understand the importance of Health Management</p>

22UBBAE47-1: OFFICE MANAGEMENT

1. Apply various approaches when dealing with the management of tasks, teams and individuals
2. Apply techniques to plan and manage workload effectively and achieve objectives
3. Create and apply a checklist of systems and procedures to aid the smooth running of the office

Apply assertive communication and problem-solving skills

22UBBAE47-2: TOURISM MANAGEMENT

1. To understand what tourism is and its definitions.
 2. To understand about tourism demand.
 3. To understand tourism Economics
 4. To Understand about Pricing Determinants
- To come know about Tourism Development

22UBBAE47-3: TALENT AND KNOWLEDGE MANAGEMENT

1. What is talent management and how critical is it for the organizations excellence
2. Explain the stages in talent planning
3. Summarize the process of creating/ identifying talent and creating a talent pipe line
4. Describe how the talent is being searched in an organization and recognized
5. Describe the ways to improve talents in an organization
6. Describe the process of performance management, talent retention in an organization
7. Talent management best practices

22UBBAN48: PERSONALITY ENHANCEMENT

1. To impart knowledge to develop the presentation skills and help them to make their presentations effectively

22UBBAC51: FINANACIAL MANAGEMENT

1. To expose learners as beginners to various concepts and principles of financial management

2. To develop in them decision- making skills on various financial matters

To acquaint them with various tools for the management and understanding of finance

1. The aim of the course is to develop an overview regarding concepts underlying in the marketing management process.

22UBBAC52: MARKETING MANAGEMENT

2. To expose students to marketing concepts and trends in the market

3. To promote the ability to relate consumer behaviour and market trends

4. To make students realize the relationship between marketing channels and corresponding strategies.

22UBBAC53: RESEARCH METHODOLOGY

1. Introduce the basic concepts of research and apply the fundamental of sampling techniques.

2. Learn about types of sampling and it types.

3. To understand the analysis of data collection.

4. Learn the processing of collection data.

To know about Interpretation of results

22UBBAE54-1 :FINANCIAL SERVICES

1. To enable the student to give knowledge of business financial services.

2. To enhance knowledge on capital market.

3. To help them understand the process of Hire purchasing.

4. To familiarise oneself with factoring and its types.

The student to understand mutual fund and venture capital

22UBBAA54-2: E-COMMERCE

To Learn the E-Commerce Platform and its concepts.

To Understand the Technology, infrastructure and Business in E-Commerce.

To Understand the Security and Challenges in E-Commerce.

To Build an Own E-Commerce using Open Source Frameworks

1. To provide students with a detailed knowledge on the origin, history and operations of the hospitality industry.

2. To make students to understand the various departments that are operating in the hotels

3. To make students familiar about various job positions, duties and responsibilities of staffs

4. To familiarize students about various equipment's, machineries software applications that are existing in the hotel industries

5. To provide insight into hotel products, guest needs, pricing, marketing, promotion, overall control etc

To make students to understand about licensing laws, governments regulations, food and beverage dispensing rules and procedures

To develop student's personality through learning of personality traits, self confidence, self management and transactional analysis

22UBBAS55: PERSONALITY DEVELOPMENT

22UBBAC61: INDUSTRIAL RELATIONS & LABOUR LAW

1. To provide knowledge about basic concept of computer.

2. To help students to know the usage of MS –word its benefits in business.

3. To help students to know the usage of Excel in reporting and research

4. To help students to know the process of designing presentations using PPT

5. To provide knowledge about E-Commerce, and its applications

22UBBAC62: STRATEGIC MANAGEMENT

1. To know the importance of strategic management in an organization.

2. To learn the corporate strategy, strategic planning, formulation of strategy, project life cycle and SWOT analysis.

3. To know generic strategic alternatives, horizontal and vertical diversification.

4. To understand the external growth strategy, mergers, acquisition, amalgamation, joint ventures, problems of an organizational structure and corporate development - line and staff function and the management of change.

5. To learn the implementation of strategy, elements of strategy, importance of leadership and organizational climate, planning and control of implementation.

22UBBAC63: ENTREPRENEURSHIP AND SMALL BUSINESS

1. To enable the students understand the Entrepreneurial environment

2. To impart knowledge and skills needed to become an women entrepreneur

3. Identify the key elements of a good business plan

4. To Impart information about process ,rules and regulations for setting up new projects

22UBBAE65-1: MATERIAL MANAGEMENT

5. To educate the student about provision for starting small industry

1. Comprehend the role of Material Management.
2. To understand the fundamentals of Maintenance management.
3. To understand the Purchasing Principles and Vendor rating.
4. To know about Inventory control and material handling.
5. To understand the Concept of Store management and importance of store layout.

22UBBAA65-2: PORTFOLIO MANAGEMENT

1. To study introduction about the investment management.

2. To evaluate whether a stock is fairly valued when its risk and the time value of money are compared to its expected return.

3. To study about risk return policy.

4. To create an idea about real assets, Financial assets.

To meet financial goals

1. To acquaint you with the various aspects of HRM that relates to reward

2. To provide a working understanding of each dimension of reward that must be dealt with management.

3. To leave students with a working knowledge and a confidence to tackle these various areas.

4. To analyse the relationship between the environment, strategy and systems of reward management.

5. To identify the ideological premises or theoretical assumptions underlying current reward and performance initiatives.

22UBBAE65-3: REWARD MANAGEMENT

1. To impart knowledge to develop the Employability skills of the students and help them to use their skills effectively to get employment

22UBBAS66: EMPLOYABILITY SKILLS

B.SC MATHS

22UMATC13: CLASSICAL ALGEBRA

In this course students are exposed to topics like Theory of Equations, Summation of Series, Matrices and Elementary Number Theory. The stress is on the development of problem solving skills.

22UMATC14: DIFFERENTIAL CALCULUS AND TRIGONOMETRY

To inculcate the basics of differentiation and their applications, the notion of curvatures, radius of curvature in Cartesian and polar coordinates, Evolutes & Involutives, students can be trained to understand the basic concepts of Trigonometry

22UNUMA01: NUMERICAL METHODS USING PYTHON - I

In this course students are exposed to topics interpolation for equal & unequal intervals. It also makes the students abreast with the programming concepts and to master them in python

22UPHYA01: PHYSICS - I

1. To understand the concept of elasticity and strength of solid materials, viscous properties of liquids and surface tension.

2. To acquire knowledge on centre of gravity, state of equilibrium and stability of floating.

3. To study the heat capacity, conduction, convection, and radiation

22UNUMP02: NUMERICAL METHODS USING PYTHON

4. To understand conversion of heat into mechanical work.
5. To know the phenomena of light such as interference, diffraction, polarization, and their applications

To introduce the techniques of Python programming. To solve numerical problems using Python programming
In this paper the student is exposed to the idea of integration and different methods of integration. To acquaint the student with mathematical tools needed in evaluating multiple integrals and their usage. The application of integration to the evaluation of areas and volumes is also introduced.

22UMATC23: INTEGRAL CALCULUS

This paper aims to understand the fundamental concepts of Analytical Geometry in Three Dimension, such as Distance between points, Projections, Angle between planes, Line of intersection of two planes, Length of perpendicular, Symmetrical form of the equations of a line, Coplanar lines, Shortest distance between two given lines, Centre and radius of Sphere, Equation of a circle on a sphere, The equation of Right circular cone and cylinder, Central quadrics

22UMATC24: ANALYTICAL GEOMETRY 3D

This course covers the techniques of Numerical Integration. It also deals with solution of Algebraic and Transcendental equations and Numerical solution of Ordinary differential equations of first order. Students can be given the Python programming practical exercise to solve Numerical method problems

22UNUMA02 NUMERICAL METHODS USING PYTHON - II

22UPHYA02: PHYSICS II

1. To understand the concept and laws of electrostatics, working of capacitors.
2. To acquire knowledge on current electricity, electromagnetic induction and resonance circuits.
3. To understand the atom models, X-rays and nuclear properties and reactions.
4. To study fundamentals of solid-state electronics diodes and transistors.

To know the number system, logic gates and basic digital circuits

22UNUMP02 ALLIED PRACTICAL – NUMERICAL METHODS WITH PYTHON

22UPHYP02: PHYSICS PRACTICAL

To introduce the techniques of Python programming. To solve numerical problems using Python programming

1. To know the method of determining elastic properties of solids

2. To learn the experimental method to determine surface tension and viscous properties of liquids

3. To acquire knowledge of measurement of optical properties of solid

4. To acquire knowledge to measure the size of very small objects.

5. To gain knowledge of finding thermal properties of liquids

To obtain the electrical properties of a conductor and to perform experiments to study the semiconductor devices and digital circuits.

Introduce the Fourier series and its application and the concepts of Half range Sine and Cosine series Dirichlet's conditions, Fourier Integrals, Fourier Sine and Cosine Integral, and different type Fourier transforms

22UMATE26-1: FOURIER SERIES AND FOURIER TRANSFORM

22UMATE26-2: MATRIX THEORY	In this course students are trained to develop skills in finding rank, inverse, Eigen values, Eigen vectors and quadratic forms
22UMATE26-3: NUMBER THEORY	To highlight the niceties and nuances in the world of numbers, the students will be given training on divisibility of numbers and the fundamental theorem of arithmetic, prepare them for coding through congruences and make them understand the Applications of Fermat's theorem, Wilson's theorem and famous Chinese remainder theorem. Modern algebra plays a major role in other branches of Mathematics. Properties of groups, Various subgroups such as normal subgroups, quotient groups are studied. Homomorphism of groups and rings, automorphisms of groups are discussed. The properties of rings, ideals, quotient rings and Euclidean rings are discussed.
22UMATC33: ABSTRACT ALGEBRA	To Learn Statistical Methods Probability theory, Random variables, Distribution functions, Mathematical expectations, Generating functions, Correlation, Regression, and some standard Distributions. Students should be given practice on Statistical methods so that he could apply the techniques to solve real world problems in the field of Science, Technology and Business Management
22UMATA03: MATHEMATICAL STATISTICS-I	To provide an understanding of the principles of accounts and practice in recording transactions and interpreting individual as well as company accounts, and develop an understanding of the form and classification of financial statements as a means of communicating financial information
22UCOMA25: PRINCIPLES OF ACCOUNTANCY - I	This course aims to offer fuzzy sets, Crisp sets, properties of μ -Cuts, fuzzy operations and fuzzy logic. The students will be given practice on solving problems of real world using Fuzzy sets and Fuzzy logic
22UMATE36-1: FUZZY SETS AND FUZZY LOGIC	To make the students abreast with the programming concepts Constants, variables, data types, operators, expressions, formatted input-output statements, Control statements and to master them in C Language. Students can be given practice to write a complete C programs to solve all kinds of problems arise day today life in Science, technology and Business
22UMATE36-2: PROGRAMMING IN C LANGUAGE	Learn Fundamentals of R. Covers how to use different functions in R, how to read data into R, accessing R packages, writing R functions, debugging, and organizing data using R functions. Cover the Basics of statistical data analysis with examples. The whole syllabus will give an idea to collect, compile and visualize data using statistical functions
22UMATE36-3: R PROGRAMMING	Students can be given practice to solve all kinds of problems arise day today life in Science, technology and Business Using the concepts of number system, HCF and LCM, average, ratio, proportion, and partnership To enrich the problem solving skills, teach mathematical ideas for real world problems.
22UMATN37: BASIC MATHEMATICS - I	Inculcate the habit of self learning. To make the students understand basic Mathematics and guide them to solve problems on Numbers, Average, percentage and Mixture
22UMATS38: QUANTITATIVE APTITUDE- I	

22UMATC43: REAL ANALYSIS – I	To lay a good foundation of Analysis and to acquire knowledge about Real number system, metric spaces, various limiting behavior of sequences and series, open sets, closed sets and to enhance the mathematical maturity and to work comfortably with these concepts.
22UMATC44: STATICS	This Course aims to provide basic skills and problem solving techniques in forces acting at a point, Coplanar system of forces, friction and equilibrium of strings and chains
22UMATA04: MATHEMATICAL STATISTICS-II	The objective is to train students in some concepts in mathematical statistics. The theory of sample moments, significant test, sampling theory and analysis of variance are introduced. Practical problems are solved
22UCOMA26: PRINCIPLES OF ACCOUNTANCY - II	To enable the students to learn the concept of system of preparing financial statements for various types of organizations, and make them understand with knowledge about financial reporting standards. To enable the students to acquire the ability in preparing and maintaining Cash book, Single entry system, Depreciation accounting, financial statements and Final Accounts
22UMATA46 MATHEMATICAL STATISTICS PRACTICAL USING R - PROGRAMMING	After taking the course, students will be able to use R for statistical programming, computation, graphics, and modeling in Computer practicals, further they will be given training on built in functions in R and use that in an efficient way to solve all critical problems. It helps them to fit some basic types of statistical models, and use R in their own research and expand their knowledge of R on their own
22UMATN47: BASIC MATHEMATICS - II	To enhance the problem solving techniques in real life applications of mathematical concepts Time, work, distance, Boats and Stream, Alligation or Mixture, Volume and Surface area.
22UMATS48: QUANTITATIVE APTITUDE II	To enhance the problem solving skills and to prepare for any type of competitive examination and identify the teaching techniques and help the students to acquire the competencies and improve the basic mathematical skill
22UMATC51 LINEAR ALGEBRA	To study the Algebraic structures of Vector Spaces and Linear Transformation such as Linear dependence and independence, Dual space, Inner product spaces, Algebra of Linear transformations, Characteristic roots, Matrices, Canonical forms, Triangular forms, Trace and Transpose, Determinants
22UMATC52 REAL ANALYSIS – II	To study the analytic concepts of connectedness, compactness, derivatives, Riemann integration. To enhance the mathematical maturity and to work comfortably with concepts, Rolles's theorem, Taylor's theorem and sequences and series of functions.
22UMATC53 DYNAMICS	This course aims to provide basic skills and problem solving techniques in kinematics of point and Newton's Laws of motion. Projectiles and simple harmonic motions are studied in detail. Problems in moment of inertia are also considered. The course enhances the problem solving skill of the student
22UMATC54 DIFFERENTIAL EQUATIONS	The course aims to introduce the concepts of Equations of the First Order and Higher Degree, Euler's homogeneous linear equations, Legendre's Linear Equations, Simultaneous Equations, Laplace Transform and Formation of PDF.

22UMATE58-1 DISCRETE MATHEMATICS	<p>Students must understand Mathematical reasoning in order to read, comprehend and construct Mathematical arguments. Mathematical logic, which serves as foundation for subsequent discussions is discussed. Discrete Structures such as Sets and Permutations, Recurrence Relation and Mathematical Induction are studied</p>
22UMATE58-2 STOCHASTIC PROCESS	<p>The objectives are to (i) acquire the skills of advanced level of mathematical sophistication and enhancing the horizons of knowledge. (ii) understand the applicability of different concepts of Stochastic Processes on some physical situation. (iii) familiarize the students with the use of Stochastic models in different areas</p>
22UMATE58 MATHEMATICAL MODELING	<p>To introduce the basic concepts of Mathematical Modelling, to make the students familiarize the mathematical d in the context of real-world applications, and to teach suitable methods to adopt the problem using several mathematical concepts</p>
22UMATS59 QUANTITATIVE APTITUDE- III	<p>To enhance the problem solving skills and to prepare for any type of competitive examination in the topics simple interest, compound interest, logarithms, area, surface area and volume</p>
22UMATC61 VECTOR ANALYSIS	<p>The objective of the module is to introduce and develop the methods of vector analysis. These methods provide a natural aid to the understanding of geometry and some physical concepts. They are also a fundamental tool in many theories of Applied Mathematics</p>
22UMATC62 COMPLEX ANALYSIS	<p>To understand the functions of complex variables, continuity and differentiation of complex variable functions, analytic functions and $C - R$ equations. To learn about elementary transformation concepts and to know about power series expansions of Taylor's and Laurant's series, the singularity concepts and residues, solving definite integrals using the residues</p>
22UMATC63 OPERATIONS RESEARCH	<p>To introduce the various techniques of Operations Research, to teach the various methods of solving Linear Programming Problems, Transportation Problems, Assignment Problems and their applications, and to make the students solve real life problems in Business and Management.</p>
22UMATC64 GRAPH THEORY	<p>To study and develop the concepts of graphs, subgraphs, connectivity, Eulerian and Hamiltonian graphs, Trees, Colourings and Planarity. To acquire knowledge to model real world problems using graph theory</p>
22UMATE65-1 LAPLACE AND Z TRANSFORM	<p>To introduce Laplace transform which is a useful technique in solving many application problems and to solve differential and integral equations. To introduce Z-transforms which is a useful technique in solving difference equations and signal processing, the Z-transform converts a discrete domain signal, which is a sequence of real numbers, into a complex frequency domain representation</p>
22UMATE65-2 ASTRONOMY	<p>The prime aim of this paper is to enrich the knowledge of movements of celestial objects using mathematical concepts.</p>
22UMATE65-3 SPECIAL FUNCTIONS	<p>To make the students understand Linear operators, Simultaneous Linear differential equations, Numerical solutions of differential equations, power series solutions, and to develop computational skill in certain special functions, Legendre functions which are frequently occurring in higher mathematics and mathematical physics</p>

<p>22UMATS66 QUANTITATIVE TECHNIQUES</p>	<p>To formulate/ design and solve the practical problems in various fields using the quantitative techniques. Understanding the Diagrammatic representation of information, index numbers for business problems, Analysis of Time series for solving real world problems</p>
<p>22UNUMA01: NUMERICAL METHODS USING PYTHON - I</p>	<p>In this course students are exposed to topics interpolation for equal & unequal intervals. It also makes the students abreast with the programming concepts and to master them in python</p>
<p>22UNUMA02: NUMERICAL METHODS USING PYTHON - II</p>	<p>This course covers the techniques of Numerical Integration. It also deals with solution of Algebraic and Transcendental equations and Numerical solution of Ordinary differential equations of first order. Students can be given the Python programming practical exercise to solve Numerical method problems</p>
<p>22UNUMP02: NUMERICAL METHODS USING PYTHON</p>	<p>To introduce the techniques of Python programming. To solve numerical problems using Python programming</p>
<p>22UMATA01: MATHEMATICS – I</p>	<p>To acquire knowledge on finding roots of the Transcendental and Algebraic equations by Numerical methods, applications of matrices and Numerical methods for solving Simultaneous Linear equations. To understand the Computations of Eigen values ,Eigen vectors, differential calculus ,the evaluation of double and Triple integrals for finding Area and Volume</p>
<p>22UMATA02: MATHEMATICS – II</p>	<p>To expand trigonometric functions, solving partial differential equations and learn about vector differentiation and integration, also too familiar with physical interpretation of divergence and curl of a vector. Learning Finite differences and applications of Interpolations in real life situations</p>
<p>22UMAF01: MATHEMATICAL FOUNDATIONS – I</p>	<p>To know about Logical operators, validity of arguments, set theory and set operations, relations and functions, Binary operations, Binary algebra, Permutations & Combinations, Differentiation, Straight lines, pair of straight lines, Circles, Parabola, Ellipse, Hyperbola.</p>
<p>22UMAF02: MATHEMATICAL FOUNDATIONS – II</p>	<p>To learn how to apply fundamental mathematical tools and techniques used in most fields of science and mathematics To know about Operations on Matrices, types of Matrices, Rank of matrix, Inverse of Matrix, Methods to solve Simultaneous Linear equations, Test for consistency, Matrix of linear transformations, Characteristic roots and vectors, Types of Integration with applications to Area and Volume, Analytical Geometry 3D Planes and Straight Lines</p>
<p>22UBUMA01: BUSINESS MATHEMATICS</p>	<p>The course aim is to introduce the concepts of operations on set and applications, to study the characteristic of analytical geometry, differential calculus, matrices and commercial arithmetic</p>

B.SC STATISTIC

22USTAC13: DESCRIPTIVE STATISTICS (CORE COURSE – I)

1. To emphasis and enhance the basic statistical knowledge of the fresh students.
2. To have knowledge on various statistical measures.

22USTAC 14: PROBABILITY THEORY (CORE COURSE – II)

1. To study the basic concepts for promoting theoretical as well as applications of statistics.
2. To study the limit theorems and convergence in probability.

22USTAP15: STATISTICAL PRACTICAL– I (COREPRACTICAL – I)

1. To acquire the knowledge to solve problems related to descriptive Statistics.

<p style="text-align: center;">22UMATA01: MATHEMATICS – I</p> <p style="text-align: center;">22USTAC23: DISTRIBUTION THEORY I (CORE COURSE – III)</p>	<p>2.To acquire the knowledge to solve problems related to Probability.</p> <p>To acquire knowledge on finding roots of the Transcendental and Algebraic equations by Numerical methods, applications of matrices and Numerical methods for solving Simultaneous Linear equations. To understand the Computations of Eigen values ,Eigen vectors, differential calculus ,the evaluation of double and Triple integrals for finding Area and Volume</p> <ol style="list-style-type: none"> 1. To build probability models for non-mathematical forms of real-life problems into mathematical forms. 2. To emphasize relevance statistical tools to make decision on the real life problems. 3. To have practical knowledge on fitting of various distributions.
<p style="text-align: center;">22UMATA02: MATHEMATICS – II</p> <p style="text-align: center;">22USTAE26-1: QUANTITATIVE APPTITUDE</p>	<p>To expand trigonometric functions, solving partial differential equations and learn about vector differentiation and integration, also too familiar with physical interpretation of divergence and curl of a vector. Learning Finite differences and applications of Interpolations in real life situations</p> <ol style="list-style-type: none"> 1. This course is designed to suit the need of the outgoing students. and 2. To acquaint them with frequently asked patterns in quantitative aptitude 3. To acquaint them with logical reasoning during various examinations and campus interviews.
<p style="text-align: center;">22USTAE26-2: DATA BASE MANAGEMENT SYSTEM</p>	<ol style="list-style-type: none"> 1. To enable the students to understand classifying and grouping and retrieve the mass data.
<p style="text-align: center;">22USTAC33: DISTRIBUTION THEORY II (CORE COURSE – IV)</p>	<ol style="list-style-type: none"> 1. To build probability models for non-mathematical forms of real-life problems into mathematical forms. 2. To emphasize relevance statistical tools to make decision on the real life problems. 3.To have practical knowledge on fitting of various distributions.
<p style="text-align: center;">22USTAC34: STATISTICAL PRACTICAL II (CORE PRACTICAL – II)</p>	<ol style="list-style-type: none"> 1. To acquire the knowledge to solve problems related to Probability Distributions. 2. To acquire the knowledge to solve problems related to sampling.
<p style="text-align: center;">22USTAA03: NUMERICAL METHODS (PAPER - I)</p>	<ol style="list-style-type: none"> 1. To enable the students to establish mathematical functions using numerical data 2.To study the knowledge of Interpolation, Numerical Differentiation and Integration. 3. To familiarize in Numerical solution of ordinary differential equation
<p style="text-align: center;">ALLIED COURSE – II: ALLIED PRACTICAL - 1 NUMERICAL METHODS & PROGRAMMING IN C</p> <p style="text-align: center;">22USTAE37-1: REAL ANALYSIS I</p>	<ol style="list-style-type: none"> 1. To enable students to solve problems related to numerical methods using programming in C. 1. To build the basis for promoting the aspects of sequences and series. 2. To have knowledge on the operations of matrices.
<p style="text-align: center;">22USTAE37-2: MATHEMATICAL ECONOMICS</p>	<ol style="list-style-type: none"> 1. To enable the students to learn mathematical and statistical tools in Economics
<p style="text-align: center;">22USTAN38: STATISTICAL METHODS I</p>	<p>To enable students to learn basics of statistics and its applications</p>

**22USTAS39: ELEMENTARY MATHEMATICS
(SKILL BASED SUBJECT – I)**
**22USTAC43: SAMPLING TECHNIQUES (CORE
COURSE – V)**

1. To enable the students to understand the Statistics concepts through the mathematics

1. To learn the basic concepts and Applications of Sampling techniques for real life situations.

2. To study the various Functions of NSS and CSO.

**22USTAP44: STATISTICAL PRACTICAL II (CORE
PRACTICAL – II)**

1. To acquire the knowledge to solve problems related to Probability Distributions.

2. To acquire the knowledge to solve problems related to sampling.

IN C (PAPER – II)

22USTAN47: STATISTICAL METHODS II

1. To enable the students to understand and develop to enable students to learn the concept of estimation of unknown parameters of the population and hypothesis testing

**22USTAS48: Statistical Data Analysis i (USING R
PROGRAMMING)(SKILL BASED SUBJECT – II)**

1. To enlighten the students to acquire skills for adopting statistical tools and techniques of

data analysis.

2. To enable students to utilize the theoretical knowledge gained in the **core** pPapers and to develop computational and technical skills for **real life**

22USTAC51: STATISTICAL INFERENCE I

1. To enable the students to understand the sampling

2. To apply various estimation procedures.

22USTAC52: STATISTICAL QUALITY CONTROL

1. To understand the need of quality improvement, total quality management.

2. To understand the need of statistical plots and tools such as SPC, CUSUM and ISO.

22USTAC53: APPLIED STATISTICS

1. To introduce the basic Statistical tools in time related Variables, economic variables.

2. To enable the students understand index numbers and other Statistical tools applied to demographic and chorological data

22USTAC54: OPERATION RESEARCH

1. To import knowledge of various optimization techniques that makes use of statistical concepts abundantly.

2. To apply the various optimization techniques in real life situations

3. To have knowledge on decision making

22USTAP55: STATISTICAL PRACTICAL – III

To enable students to solve problems related to estimation and hypothesis testing, statistical quality control techniques and design and analysis of experiments

**22USTAP56: STATISTICAL DATA ANALYSIS-
SOFTWARE BASED**

1. To enable students to utilize the theoretical knowledge gained in the core papers and to

develop computational and technical skills for real life applications emphasizing the importance of statistical software programming.

22USTAE58-1: STATISTICAL GENETICS

1. To enhance the students apply statistical methods in Genetics.

22USTAE58-2: PROGRAMMING WITH C++

1. This paper aims at introducing the language C++ in a systematic manner to make the

students to have knowledge in program writing and developing the software.

2. To learn structures in C++

3. To understand the usage of classes and objects.

**22USTAS59: INDIAN OFFICIAL STATISTICS
(SKILL BASED SUBJECT – III)**

1. Understand the functioning of government and policies.

2. Promote human resource development in the official statistics.

22USTAC61: STATISTICAL INFERENCE II	<ol style="list-style-type: none"> 3. Execute the data handling tasks in various government records. 4. To encourage research and development in theoretical statistics. 5. To encourage research and development in applied statistics. 1. To give detailed idea of estimation and testing of hypothesis to the students. 2. To give detailed idea about Non-Parametric Tests.
22USTAC62: REGRESSION ANALYSIS	<ol style="list-style-type: none"> 1. To study the various regression models and their applications. 2. To study the estimation of parameters in regression analysis 3. To learn the testing of regression coefficients
22USTAC63: DESIGN OF EXPERIMENTS	<ol style="list-style-type: none"> 1. To enable the students to learn basic concepts of design and its applications. 2. To have practical knowledge on the applications of designs in agriculture data.
22USTAC64: STOCHASTIC PROCESSES	<ol style="list-style-type: none"> 1. To acquire the standard concepts and methods of Stochastic Modelling and applications. 2. To study the applications of Markov chains 3. To study the practical usages of various random processes
22USTAP66: STATISTICAL DATA ANALYSIS- SOFTWARE BASED	<ol style="list-style-type: none"> 1. To enable students to utilize the theoretical knowledge gained in the core papers and to develop computational and technical skills for real life applications emphasizing the importance of statistical software programming.
22USTAE68-1: DEMOGRAPHY	<ol style="list-style-type: none"> 1. To acquire the knowledge of demographic methods applicable to statistical data analysis. 2. To have knowledge on Mortality and Morbidity and life table.
22USTAE68-2: REAL ANALYSIS II	<ol style="list-style-type: none"> 1. To make the students get understanding Riemann Integration, convergence and metric space. 2. To gain knowledge about improper integrals 3. Able to understand series of functions and applications
22USTAS69: ECONOMETRICS (SKILL BASED SUBJECT - IV)	<ol style="list-style-type: none"> 1. To enrich the skills of students to understand the nature and functioning of economic systems. 2. To know the practical applications of auto correlation and multicollinearity.
22USMAA02 : STATISTICAL METHODS AND THEIR APPLICATIONS	<ol style="list-style-type: none"> 1) To know about statistics 2) To know about measures of central tendencies and dispersion 3) To know about correlation and regression 4) To know the concept of probability and distribution 5) To apply test of significance

B.SC PHYSICS

22UPHYC13: PROPERTIES OF MATTER AND SOUND	<ol style="list-style-type: none"> 1. To expound the fundamentals of elastic properties of solids. 2. To understand the surface properties of liquids and the experimental methods. 3. To explain the viscous properties of liquids and gases, Poiseuille's formula.
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	<p>4. To elaborate the SHM, resonance phenomena, determination of frequency and loudness.</p> <p>5. To get an idea of the ultrasonics generation method, reverberation, acoustics of buildings and use in oil and gas industry.</p>
22UPHYC14: HEAT AND THERMODYNAMICS	<p>1. To get an idea about the specific heat capacity and its determination.</p> <p>2. To understand the kinetic theory of gases and gas laws.</p> <p>3. To get acquainted with transmission of heat and radiation laws.</p> <p>4. To understand the low temperature Physics and Superconductivity.</p> <p>To learn the thermodynamic system and its laws To acquire knowledge on finding roots of the Transcendental and Algebraic equations by Numerical methods, applications of matrices and Numerical methods for solving Simultaneous Linear equations. To understand the Computations of Eigen values ,Eigen vectors, differential calculus ,the evaluation of double and Triple integrals for finding Area and Volume</p>
22UMATA01: MATHEMATICS – I	<p>1. To learn the laws of conservation and collision of bodies</p> <p>2. To understand and calculate the moment of inertia of different bodies</p> <p>3. To know the laws of gravitation, variation of 'g' and gravitational field</p> <p>4. To learn the central force motion, centre of mass, variable mass systems</p> <p>To understand the friction, centre of gravity and flow of fluids</p>
22UPHYC23: MECHANICS	<p>1. Elastic properties of solids.</p> <p>2. Physical properties of liquids</p> <p>3. Thermal properties of matter</p> <p>4. Optical and electrical properties of materials and semiconductors</p> <p>Frequency of vibration, relative density, and acceleration due to gravity</p> <p>To expand trigonometric functions, solving partial differential equations and learn about vector differentiation and integration, also too familiar with physical interpretation of divergence and curl of a vector. Learning Finite differences and applications of Interpolations in real life situations</p>
22UPHYP24: PRACTICAL - I	<p>1. To provide an understanding of the present energy crisis and various available energy sources.</p> <p>2. To understand the harvesting of solar energy.</p> <p>3. To know the basics of photovoltaic system and its applications.</p> <p>4. To learn about the biogas and biomass energy.</p> <p>To understand the alternative energy sources and their details</p>
22UMATA02: MATHEMATICS – II	<p>1. To know the units, dimensions and measurement of various physical quantities.</p> <p>2. To acquire knowledge on different states of matter and conversion between them.</p> <p>3. To know different types of energy.</p> <p>4. To know about pressure, temperature and their simple measuring devices.</p>
22UPHYE26 – 1: RENEWABLE ENERGY SOURCES	<p>1. To know the units, dimensions and measurement of various physical quantities.</p> <p>2. To acquire knowledge on different states of matter and conversion between them.</p> <p>3. To know different types of energy.</p> <p>4. To know about pressure, temperature and their simple measuring devices.</p>
22UPHYE26–2: FUNDAMENTALS OF PHYSICS	<p>5. To understand principles of mirrors and lenses</p>

22UPHYE26-3: BASICS OF DATA COMMUNICATION AND PROGRAMMING IN C

1. To learn the different aspects of digital data communication and networks
2. To understand the art of multiplexing signals and its advantages and applications.
3. To get to know the ideas about broadband, layers, repeaters, bridges and gateway
4. To get acquainted with the keywords, operators, expressions and functions in C program.

To study the input and output, branching, loop, arrays etc., in C program

22UPHYC33: OPTICS AND SPECTROSCOPY

1. To understand the concept of lenses and its aberrations.
2. To know the meaning of the term interference of light.
3. To gain knowledge about diffraction of light.
4. To know the importance of polarization nature of light.

To understand the functioning of optical instruments

22UCHEA01: ALLIED CHEMISTRY-I

- 1) To impart wide knowledge about Metallurgy.
- 2) To invoke the knowledge in basic concepts of chemistry.
- 3) To provide a knowledge on chemical kinetics.
- 4) To Familiarize the students about Industrial Chemistry.

To inculcate interest in Nuclear chemistry

22UPHYE37-1: MOBILE CELLULAR TECHNOLOGY

1. To learn the background information about cellular system.
2. To study the various mobile standards.
3. To teach the chip level information of mobile phones.
4. To expose the idea about trouble shooting of problems in mobile phones.

To acquire the knowledge about mobile service tools

22UPHYE37- 2: LASER PHYSICS

1. To learn the principle of Laser and its characteristics
2. To explore the different types of Lasers
3. To know the various applications of Laser in Industry
4. To discuss the uses of Laser in Medical field
5. To understand the application of laser in telecommunication

22UPHYE37-3: WEATHER FORECASTING

1. To learn about the elementary idea of atmosphere, atmospheric pressure etc.
2. To study how to measure wind speed, direction, rainfall etc.
3. To teach the different weather systems and hurricanes
4. To explain the climate and environmental issues related to climate

To give an idea about weather forecasting

22UPHYN38 ENVIRONMENTAL PHYSICS

1. To get to know the knowledge about atmosphere, weather and cyclones.
2. To understand the reasons for climate change and global warming.
3. To analyze the need and usage of non-conventional energy resources.
4. To learn the concepts of radiation detection.

To realize the importance of radiation safety measures

22UPHYS39: BASIC ELECTRICAL TECHNOLOGY

1. To know the basic principles of electricity.
2. To explore the different kinds of cells and batteries.

**22UPHYC43: ELECTRICITY AND
ELECTROMAGNETISM**

3. To state the different theorems for DC circuits and know the function of DC
4. generator/motor.
5. To acquire the basic ideas of alternating voltage and current.

To know the principle of transformers and motors

1. To provide comprehensive knowledge and understanding of electrostatics and applications
2. To acquire adequate knowledge of Kirchhoff's law, magnetic induction and their applications.
3. To get idea about electromagnetic induction, self-inductance and mutual inductance.

4. To understand the growth and decay of current in a circuit containing L, C, and R and their AC behaviour.

To get acquainted with the electromagnetic waves and Maxwell's equations and their significance.

1) Make the students familiar with Coordination Chemistry.

2) To acquire thorough knowledge about Carbohydrates and proteins.

3) Enable the students to acquire knowledge in Electrochemistry.

4) To have an idea about paint and varnishes.

To create about knowledge in medicinal chemistry

1) To help the students to develop the skills in Titrimetric Analysis.

2) To learn the basic analytical method.

3) To know about various indicators and their significance.

4) To impart knowledge about primary standard solution.

To enhance knowledge about stoichiometric relationship for standardization

1. To understand the basics of measurements and mechanics.
2. To learn the principle of Pressure cooker, Refrigerator and Air-conditioner.
3. To know the construction and working of domestic electrical appliances.
4. To study the fundamentals of laser and its applications.

To understand the different biomedical instruments

1. To get acquainted with the specific skills in the testing of components.

2. To illustrate the functions and working of different power supply system and voltage regulation methods.

3. To know the principle and working of different domestic electrical and electronics appliances

4. To understand the various standard sockets, cables and modern communication standards.

5. To get to know the instruments and application in diagnosis, therapeutic treatment and imaging fields

22UCHEA02: ALLIED CHEMISTRY-II

22UCHEAP01: ALLIED CHEMISTRY PRATICALS

22UPHYN47 PHYSICS FOR DAILY LIFE

22UPHYS48: ELECTRONICS TECHNOLOGY

22UPHYC51 ATOMIC AND MOLECULAR PHYSICS

OBJECTIVES:

1. To study the properties of cathode and positive rays, experiments for specific charge and mass spectrographs
2. To know the structure of the atom and to understand the spectral lines.
3. To understand effects of magnetic field on atomic spectra

4. To acquire the knowledge about photoelectric effect and derive the Einstein's photoelectric equation.

5. To get to know the various energy levels viz., rotational, vibrational etc. And to understand the principle of Infrared spectroscopy, Raman effect and Laser

22UPHYC52 RELATIVITY AND QUANTUM MECHANICS

1. To Understand the fundamentals of relativity and general theory of relativity.

2. To acquire knowledge about concepts of matter waves, phase and group velocity

3. To understand the Heisenberg's uncertainty principle

4. To derive Schrodinger time independent, dependent wave equation and application to various cases.

To interpret the concepts of operators and angular momentum in quantum mechanics

1) To understand the fundamental principles of semiconductors, p-n junction and special diodes

2) To acquire knowledge on transistor, its Characteristics and transistor amplifier

3) To understand the feedback principle, oscillators, and multivibrators

4) To understand the operation and significance of some special semiconductor devices

To acquire knowledge on Operational Amplifier and its applications

22UPHYC53: ANALOG ELECTRONICS

22UPHYC54 DIGITAL ELECTRONICS

1. To understand the various number systems and their significance

2. To know the concepts of Boolean Algebra and basic logic gates.

3. To introduce the simplification methods of Boolean expression.

4. To get the idea of Karnaugh map simplification.

5. To acquire knowledge on combinational logic circuits.

6. To know the sequential logic systems, Shift registers and counters

To understand the working of DAC and ADCs

22UPHYE58 - 1 Internal Elective - III (1) MATERIALS SCIENCE

1. To know the classification of engineering materials and properties.

2. To discuss the mechanical and thermal behaviour of materials.

3. To acquire the knowledge on polymers, ceramics and nanomaterial.

4. To study the basics of smart materials.

To learn the idea of energy storage materials

22UPHYE58 - 2 Internal Elective – III - (2) MATHEMATICAL METHODS

1. To acquire knowledge about the concept of errors and roots of equations.

2. To familiarize with the concept of matrix and linear equations.

3. To have some basic idea about interpolation.

4. To know the numerical differentiation and integration.

To acquire idea about differential equations

22UPHYE58-3 Internal Elective – III – (3) MEDICAL PHYSICS

1. To impart basic knowledge about transducers.

2. To develop understanding of basic medical devices.

22UPHYS59: ASTROPHYSICS	<p>3. To have a better understanding of X-rays in medicine.</p> <p>4. To learn to apply medical physics concepts in Imaging.</p> <p>To acquire ideas of nuclear medicine and recent medical devices</p> <ol style="list-style-type: none"> 1. To understand the basics of astronomy. 2. To know about the telescope and its types. 3. To learn about the physical properties of planets. 4. To understand the star formation. <p>To understand the galaxy and its types</p>
22UPHYC61 SOLID STATE PHYSICS	<ol style="list-style-type: none"> 1. To understand different types of bonding in solids 2. To understand the crystal structures and diffraction phenomenon on them. 3. To understand the magnetic and dielectric properties of crystalline structures. 4. To acquire knowledge on the basics of magnetic phenomena on materials and various types of magnetizations. <p>To know the phenomenon of superconductivity on the materials</p>
22UPHYC62 NUCLEAR AND PARTICLE PHYSICS	<ol style="list-style-type: none"> 1. To impart knowledge about nuclear properties and nuclear models 2. To understand the concept of radioactivity. 3. To have a better understanding of matter interacting at nuclear level. 4. To understand the design of detectors and particle accelerators. <p>To acquire ideas about elementary particles</p>
22UPHYC63 APPLIED ELECTRONICS	<ol style="list-style-type: none"> 1. Timer IC and its working modes, fixed voltage regulators, optoelectronic devices 2. Theory of modulation, AM and FM, side bands, detection methods 3. Types of antennae, principle of TV broadcasting 4. The principle behind light wave communication and systems <p>Various types of electronic communication and RADAR</p>
22UPHYE64 MICROPROCESSOR AND ITS APPLICATIONS - INTEL 8085	<ol style="list-style-type: none"> 1. to get to know the microprocessor architecture, functions of pins 2. to get to know instruction set of 8085 microprocessor and practice programming skills 3. to get acquainted with the time delay programs and interfacing of memory devices 4. to know the Interfacing of I/O devices and their methods <p>to become familiar with interfacing of Data converters and to study PPI 8255 and its application</p>
22UPHYE65 GENERAL EXPERIMENTS	<ol style="list-style-type: none"> 1. To estimate the elastic and optical properties, constants of materials 2. To determine electrical properties of passive components using ballistic galvanometer 3. To determine magnetic properties of coil using magnetometers 4. To estimate the inductance of a coil using an AC bridge 5. Converting galvanometer for Volt and Current measurements
22UPHYE66 ELECTRONICS EXPERIMENTS	<ol style="list-style-type: none"> 1. To perform experiments to study the behaviour of resonance, regulator, amplifier, oscillator, op amp application circuits

2. To perform experiment to study the characteristics of electronic devices
3. To study the working of some combinational circuits
4. To understand the operation of few sequential circuits
5. To learn the programming of microprocessor – Intel 8085

22UPHYE68-1 Internal Elective – IV – (1) NANOPHYSICS

1. To create the basic knowledge in nano materials.
2. To understand the scientific perspective of nanomaterials.
3. To identify the techniques suitable for nanomaterial synthesis and study them.

To know the significance and applications of nanomaterials

22UPHYE68-2 Internal Elective - IV – (2)

1. To Learn the basic concepts of atomic and nuclear physics

2. To know the different types of radiation and interaction of charged particles

3. To understand the basic idea of different units of activity and working principle of radiation detectors

4. To understand the concept of radiation safety management

To study the application of nuclear techniques

22UPHYE68-3 Internal Elective - IV-(3) MOLECULAR BIOPHYSICS

1. To study the Physical phenomena diffusion, osmosis, viscosity, adsorption and hydrogen ion concentration with special reference to biology.

2. To understand the structure of macromolecules.

3. To understand the operation of human nervous system.

4. To know the energetics of cell and whole body.

5. To understand the photochemical reactions in plants

22UPHYS69 Skill Based Subject - IV INSTRUMENTATION TECHNIQUES

1. To impart knowledge about basic instruments.

2. To understand the concept and working of CRO.

3. To have a better understanding of signal generators.

4. To learn about Q - meters.

5. To acquire ideas of digital instruments.

B.SC CHEMISTRY

22UCHEC13: GENERAL CHEMISTRY – I

- 1) To provide basic idea about regarding atomic structure

- 2) To impart knowledge about Periodic Properties, Bonding Concepts, Ionic Bond, VSEPR and MO Theories.

- 3) To acquire in-depth knowledge about Nomenclature of Organic Compounds, Hybridisation, Reaction Intermediates.

- 4) To inculcate interest in Gaseous State, Kinds of velocities, Virial equation of state.

Make the students to understand about Liquid state, Liquid crystals, Solid state, X-ray diffraction

22UCHEC14: GENERAL CHEMISTRY – II

- 1) Lab safety and Nature of chemicals.

- 2) Types of titrations and Concentration terms.

- 3) Semi micro analysis and precipitation techniques.

	<p>4) Organic analysis Logarithm, drawing graph, rules of differentiation and integration</p>
<p>22UMATA01: MATHEMATICS – I</p>	<p>To acquire knowledge on finding roots of the Transcendental and Algebraic equations by Numerical methods, applications of matrices and Numerical methods for solving Simultaneous Linear equations. To understand the Computations of Eigen values ,Eigen vectors, differential calculus ,the evaluation of double and Triple integrals for finding Area and Volume</p> <ol style="list-style-type: none"> 1. To understand the concept of elasticity and strength of solid materials, viscous properties of liquids and surface tension. 2. To acquire knowledge on centre of gravity, state of equilibrium and stability of floating. 3. To study the heat capacity, conduction, convection, and radiation 4. To understand conversion of heat into mechanical work. 5. To know the phenomena of light such as interference, diffraction, polarization, and their applications
<p>22UPHYA01: PHYSICS – I</p>	<ol style="list-style-type: none"> 1. To understand the major groups of plants and their characteristics. 2. To render the structural and reproductive stages of major groups of plants with appropriate type study. 3. To impart the knowledge on the life cycle patterns of major groups of plants. 4. To Gain knowledge about anatomy of stem, root and leaf and their secondary growth.
<p>22UBOTA01: ALLIED BOTANY – I : PLANT DIVERSITY ANATOMY, EMBRYOLOGY</p>	<p>To Grasp the idea of double fertilization, types of endosperms, and dicot embryo development.</p> <ol style="list-style-type: none"> 1) To learn the principles of animal taxonomy. 2) To learn the classification of animals upto class. 3) To enlighten the students about the diverse forms of Invertebrate and Vertebrate animals present around us. 4) To learn the salient features and various systems of different phyla. <p>To help our students to distinguish various animals and to know the evolutionary sequence of them</p>
<p>22UZOOA01: ZOOLOGY – I</p>	<ol style="list-style-type: none"> 1) To acquire knowledge on the structure and classification of bio molecules 2) To gather information about the characteristic features of bio molecules 3) To analyse the role of carbohydrate in the cell wall 4) To study about the bonds in the stabilisation of bio molecules. <p>To gain knowledge about the functions of bio molecules</p>
<p>22UBIOA01: BIOCHEMISTRY I</p>	<ol style="list-style-type: none"> 1) To obtain a comprehensive overview on s and p block elements. 2) To understand the properties and reactions of alkanes, alkenes and alkynes. 3) To impart knowledge regarding the basics of dienes and cycloalkanes.
<p>22UCHEC23: GENERAL CHEMISTRY-III</p>	

**22UCHEP24: VOLUMETRIC ANALYSIS AND
INORGANIC PREPARATIONS**

4) To understand the various terminologies and reactions related to Quantum Chemistry and Thermodynamics.

5) To understand the laws and reactions related to Thermochemistry.

1) To enhance the knowledge and principles behind volumetric analysis.

2) To impart skills in weighing.

3) To understand the principles of standardizing the solution using the analytical technique known as titration.

4) To know about the uses of various indicators.

To invoke the basic knowledge of various primary standard salts and their significance

To expand trigonometric functions, solving partial differential equations and learn about vector differentiation and integration, also too familiar with physical interpretation of divergence and curl of a vector. Learning Finite differences and applications of Interpolations in real life situations

1. To understand the concept and laws of electrostatics, working of capacitors.

2. To acquire knowledge on current electricity, electromagnetic induction and resonance circuits.

3. To understand the atom models, X-rays and nuclear properties and reactions.

4. To study fundamentals of solid-state electronics diodes and transistors.

To know the number system, logic gates and basic digital circuits

1. To understand external features of plants

2. To familiarize range of characters and economic importance of some families.

3. To know structure of mature anther and types of ovules.

4. To understand physiology mechanisms of plant.

To acquire knowledge of ecosystem and environmental pollution

1) The study of Zoology aims to increase understanding of living systems.

1) To consider the systems in relationship to the self and other organisms in the natural environment.

2) To study the cytological and anatomical details of human.

3) To learn the basic principles of genetics and developmental growth.

To study the basic concepts of evolution

1) To acquire a wide knowledge on metabolism

2) To gain knowledge about disorders of metabolism

3) To study the biological functions of vitamins and minerals

4) To gather information about enzyme structure and function.

5) To analyse the importance of vitamins and minerals

1. To know the method of determining elastic properties of solids

22UMATA02: MATHEMATICS – II

22UPHYA02: PHYSICS II

**MORPHOLOGY, TAXONOMY, PHYSIOLOGY
ECOLOGY AND BIOTECHNOLOGY**

22UZOOA02: ZOOLOGY – II

22UBIOA02: BIOCHEMISTRY II

22UPHY01: PHYSICS PRACTICAL – I

2. To learn the experimental method to determine surface tension and viscous properties of liquids

3. To acquire knowledge of measurement of optical properties of solid

4. To acquire knowledge to measure the size of very small objects.

5. To gain knowledge of finding thermal properties of liquids

To obtain the electrical properties of a conductor and to perform experiments to study the semiconductor devices and digital circuits

1. To make suitable micro preparations of Algae, Fungi, Bryophytes, Pteridophytes, Gymnosperms (mentioned in the theory syllabus) and to describe and identify the same.

22UBOTP01: ALLIED BOTANY PRACTICAL I

2. To make suitable micro preparations and detailed microscopic analysis of Dicot and Monocot Stem, root and leaf and to identify the same giving reasons.

3. To study the normal secondary thickening in dicot stem and root.

4. To study the internal structure of a mature anther.

5. To study the different types of ovules and endosperms.

6. To describe in technical terms, plants belonging to any of the families prescribed and to identify the family.

7. To dissect a flower, construct floral diagram and write floral formula.

8. Demonstration experiments 1. Ganong's Light screen 2. Ganong's respiroscope.

9. To identify Spotters- Morphology of flowering plants, Taxonomy, Plant Physiology, Plant Biotechnology and Ecology.

To maintain observation and record note book

1) Learn and be familiar with the Laboratory techniques.

1) To understand the taxonomic position, body organization and evolutionary relationship of animals.

To inculcate the significance of various non chordates and chordates

22UZOO01: ZOOLOGY PRACTICAL

22UBIOP01: ALLIED BIOCHEMISTRY PRACTICAL - I

1) To acquire a wide knowledge on the qualitative analysis

2) To gain information in quantitative analysis

3) To study the function groups in biomolecules

4) To analyse the biological substance by titrimetric method.

To differentiate the carbohydrate by microscopic examination of the crystal structure

1) To recognize the causes of common diseases, their control and treatment

2) To understand the first aid for accidents

3) To study the organic pharmaceutical aids

4) To know about organic diagnostic agents

To have an idea about diabetes and cancer

22UCHEE26-1: HEALTH CHEMISTRY

22UCHEE26-2: PHARMACEUTICAL CHEMISTRY

1) To know the basics of pharmaceutical chemistry

2) To realize the role of Indian medicinal plants and blood

	<ul style="list-style-type: none"> 3) To have an idea about alkaloids and sulphonamides 4) To distinguish about antibiotics and analgesics 5) To learn anaesthetics, antiseptics and disinfectants
22UCHEE26-3: TEXTILE CHEMISTRY	<ul style="list-style-type: none"> 1) To know the basics of fibres. 2) To realize the properties of fibres. 3) To learn processing of fibres. 4) To understand dye chemistry. <p>To learn dyeing process</p>
22UCHEC33: GENERAL CHEMISTRY – IV	<ul style="list-style-type: none"> 1. To gain Knowledge about p- Block Elements 2. To understand the importance of halogen family-classification, interhalogen compounds 3. To develop knowledge about aromaticity and electrophilic substitution reactions 4. To enlighten the students about nucleophilic substitution reactions <p>To expose the students to Second Law of Thermodynamics, Derivation of Equations, Related Problems and Applications wherever necessary</p>
22UCHEE36-1: AGRICULTURAL CHEMISTRY	<ul style="list-style-type: none"> 1. To know the importance of agricultural chemistry 2. To understand the role of fertilizers. 3. To have an idea about the effect of fertilizers and manures 4. To know about pesticides 5. To study fungicides and herbicides
22UCHEE36-2: GREEN CHEMISTRY	<ul style="list-style-type: none"> 1. To know the basics of Green Chemistry and its developments. 2. To know the principles of green chemistry. 3. To know the goals of Green Chemistry. 4. To understand Limitations of green chemistry. <p>To study the obstacles in the pursuit of the goals of Green Chemistry</p>
22UCHEE36-3: BIOCHEMISTRY	<ul style="list-style-type: none"> 1. To provide basic knowledge about cells and Nucleic acids. 2. To Familiarize the students about enzymes. 3. To enhance the knowledge in Carbohydrate and protein metabolism. 4. To inculcate an interest to have an idea about Vitamins. <p>To make the students familiar in the deficiency diseases caused by vitamins</p>
22UCHEN37: MEDICINAL CHEMISTRY	<ul style="list-style-type: none"> 1) To impart knowledge about Health and Nutrition 2) To understand the composition of blood, urine and serum. 3) To know about the common ailments like blood pressure, Diabetes etc. 4) To understand the significance of Indian medicinal plants in the treatment of chronic diseases. <p>To learn the basic idea of drugs and names of common drugs</p>
22UCHES38: WATER TREATMENT AND ANALYSIS	<ul style="list-style-type: none"> 1. To learn about various methods of water treatment. 2. To impart knowledge about water analysis. 3. To enhance the knowledge in water softening methods. 4. To instill an interest about the process involved in RO methods.

22UCHEC43: GENERAL CHEMISTRY – IV

To make the students familiar in effluent treatment

1. To give better understanding of Noble gases,
2. To study about Carboxylic Acids, Amines,
3. To learn about Alcohols, Phenols, Naphthol, Important Name Reactions, Mechanism,
4. To expose the students to III law of Thermodynamics

To understand about Partial Molar Properties, Chemical Potential, Related Problems and Applications

22UCHEP44 : INORGANIC QUALITATIVE ANALYSIS

1. To describe the methodologies which aid in analysing the inorganic salt mixture
2. To identify both interferin and non-interfering anions.

3. To enable the students to develop analytical skill and perform a systematic qualitative analysis.

4. To appreciate the various colored chemical reactions of metal ions.

To be aware of principle behind the reactions

22UCHEN47: CHEMISTRY IN TODAY’S WORLD

1) To help students visualize the importance of chemistry in today's world.

2) To know artificial sweetening agents and food preservatives.

3) To know about water treatment and industrial materials.

4) To understand the crux of chemistry in the field of cosmetology and its various implications.

To create awareness regarding fertilizers and manuring

22UCHES48: FOOD CHEMISTRY

1. To learn about the food and cereals.

2. To recognize the importance of sugar, vegetable and fruits.

3. To identify various beverages, appetizers.

4. To acquire knowledge about food preservation.

5. To know about food additives.

22UCHEC51: INORGANIC CHEMISTRY- I

1. To know the tendency of transition metals and to know the catalytic properties of transition metals and industrial applications of their compounds.

2. To expose the students about the basic concepts of coordination complexes and the Isomerism of coordination complexes.

3. To understand the theories of Coordination Compounds and their Properties.

4. To help the students to understand the facts of reactions and reaction mechanism in complexes.

To know the role and functions of conductors, superconductors and solid state materials.

22UCHEC52: ORGANIC CHEMISTRY – I

1. To effectively impart knowledge about carbohydrates.

2. To enable the students to understand various stereoisomerisms and projection formulae for stereoisomers.

3. To acquire an in-depth knowledge of conformational analysis and their stability.

4. To cohesively understand the various reactions concerning nitro and amino compounds.

To acquire a comprehensive overview of heterocyclic compounds

22UCHEC53: PHYSICAL CHEMISTRY-I	<ol style="list-style-type: none"> 1. To impart knowledge in essential topics in Physical Chemistry such as Solution and Ionic Equilibria. 2. To gain knowledge about Phase Rule and its applications. 3. To educate the students about Colligative Properties. 4. To have an idea about Chemical Equilibrium. 5. To understand the importance of Electrochemistry and its applications.
22UCHEC54: ANALYTICAL CHEMISTRY	<ol style="list-style-type: none"> 1. To provide the basic idea of analytical techniques and to know about important terminologies involved in Error analysis, 2. To study about the principles and classification of separation methods 3. To expose the students the concepts of various chromatographic techniques. 4. To impart wide knowledge about principles of gravimetric analysis and purification methods. 5. To enlighten the students about the concepts and applications of Thermoanalytical methods and Electrochemical Techniques
22UCHEE58-1: POLYMER CHEMISTRY	<ol style="list-style-type: none"> 1. To know the chemistry of polymers and polymerisation 2. To understand the properties and reactions of polymers 3. To study the plastics and resins 4. To know about chemistry of commercial polymers 5. To have an idea about advances in polymers
22UCHEE58-2 : SPECTROSCOPY – I	<ol style="list-style-type: none"> 1. To impart knowledge about various spectroscopic techniques. 2. To understand the principle of UV, IR, Raman spectral techniques. 3. To know the instrumentation of the above spectral techniques. 4. To analyze simple compounds using the above spectral techniques 5. To understand the structure simple compounds using the above spectral techniques
22UCHEE58-3: BASICS OF COMPUTER PROGRAMMING IN C AND ITS APPLICATIONS	<ol style="list-style-type: none"> 1. To acquire knowledge about the basic components of a computer and the operating system. 2. To understand Hardware and Software. 3. To understand Algorithm and Flowchart. 4. To familiarize the students in C language. <p>To understand the applications of computer software in Chemistry</p>
22UCHE59: APPLIED CHEMISTRY	<ol style="list-style-type: none"> 1. To impart Knowledge about Petrochemicals. 2. To learn about the process involved in paper and pulp technology. 3. To instill an interest about the process of sugar industry. 4. To enhance the knowledge about explosives. 5. To create an interest in leather chemistry.
22UCHEC61: INORGANIC CHEMISTRY-II	<ol style="list-style-type: none"> 1. To know the tendency of Inner transition elements and to know the various processes involved in metallurgy. 2. To introduce the students about the composition and stability of the nucleus and types of nuclear models.

	<p>3. To help the students to understand the different types of radioactivity and their applications.</p> <p>4. To help the students to understand the development and uses of bioinorganic compounds.</p> <p>To develop an appreciation for the scope, diversity, and application of organometallic chemistry</p> <p>1. To acquire an in-depth knowledge of molecular rearrangements and their mechanisms.</p> <p>2. To kindle interest in students in learning Bio-organic chemistry through the introduction of topics such as Proteins, Nucleic acids, Terpenes, Alkaloids etc.</p> <p>3. To effectively impart knowledge about structural determination and isolation of alkaloids from plant sources.</p> <p>4. To understand about antibiotics and terpenes and analyse their structures.</p> <p>To provide comprehensive introduction to organosulphur compound and aromatic sulphanic compounds</p>
22UCHEC62: ORGANIC CHEMISTRY – II	<p>1. To equip the students to understand about Surface Chemistry.</p> <p>2. To inculcate interest in Chemical Kinetics.</p> <p>3. Enable the students to acquire an indepth understanding on Photo Chemistry.</p> <p>4. To understand the importance of about Surface Chemistry.</p> <p>To invoke the basic knowledge of symmetrical elements and point group</p>
22UCHEC63: PHYSICAL CHEMISTRY – II	<p>1. To enable the students to acquire basic skills in gravimetric analysis</p> <p>2. To enhance the skills in various Organic Preparation methods</p> <p>3. To understand simple Analytical Techniques like refluxing, recrystallisation and filtration etc.,</p> <p>4. To train the students to handle various types of crucibles used in Gravimetry.</p> <p>5. To expose the students to various techniques like precipitation, digestion, filtration, drying etc</p>
22UCHEP64: GRAVIMETRIC ANALYSIS AND ORGANIC PREPARATIONS	<p>1. To enable the students to develop analytical skills in organic qualitative analysis.</p> <p>2. To enable the students to check the purity of Organic Compounds by determining Melting and Boiling Points.</p> <p>3. To understand the techniques behind Boiling Point and Melting Point Determination.</p> <p>4. To indentifyacidic, basic, phenolic and neutral organic substances by solubility tests.</p> <p>To know how to detect special elements like nitrogen, sulpher and halogens</p>
22UCHEP65: ORGANIC QUALITATIVE ANALYSIS	<p>1. To enable the students to acquire analytical (both qualitative and quantitative) and psychometer skills.</p> <p>2. To learn the basic principles of Electro chemistry.</p>
22UCHEP66: PHYSICAL CHEMISTRY PRACTICALS	<p>To learn the important concepts of Distribution law and Kinetics</p> <p>1. To introduce the basics of nanotechnology.</p>
22UCHEE68-1: NANO CHEMISTRY	

	<ol style="list-style-type: none"> 2. To learn about the types of nano particles. 3. To learn about various synthetic techniques of nano particles. 4. To learn about the applications of nano particles. <p>To learn the instrumental techniques used in characterization of nano materials</p> <ol style="list-style-type: none"> 1. To impart knowledge about various spectroscopic techniques. 2. To understand the principle of UV, IR, Raman spectral techniques. 3. To know the instrumentation of the above spectral techniques. 4. To analyze simple compounds using the above spectral techniques. <p>To understand the structure simple compounds using the above spectral techniques</p>
22UCHEE68-2:SPECTROSCOPY – II	
22UCHEE68-3: ORGANIC SYNTHESIS	<ol style="list-style-type: none"> 1. To introduce the basics of disconnection approach. 2. To learn about protecting groups. 3. To introduce one group C-C disconnections. 4. To introduce two group C-C disconnections. <p>To learn about ring synthesis</p> <ol style="list-style-type: none"> 1. To impart knowledge in Chemical composition of Milk. 2. Make the students to understand the Milk processing techniques. 3. Familiarize the students with the concepts of Milk product. 4. To teach the students about the properties of Milk. <p>To educate the students about Fermented Milk product</p> <ol style="list-style-type: none"> 1) To impart wide knowledge about Metallurgy. 2) To invoke the knowledge in basic concepts of chemistry. 3) To provide a knowledge on chemical kinetics. 4) To Familiarize the students about Industrial Chemistry. <p>To inculcate interest in Nuclear chemistry</p> <ol style="list-style-type: none"> 1) Make the students familiar with Coordination Chemistry. 2) To acquire thorough knowledge about Carbohydrates and proteins. 3) Enable the students to acquire knowledge in Electrochemistry. 4) To have an idea about paint and varnishes. <p>To create about knowledge in medicinal chemistry</p> <ol style="list-style-type: none"> 1) To help the students to develop the skills in Titrimetric Analysis. 2) To learn the basic analytical method. 3) To know about various indicators and their significance. 4) To impart knowledge about primary standard solution. <p>To enhance knowledge about stoichiometric relationship for standardization</p>
22UCHE69: DAIRY CHEMISTRY	
22UCHEA01: CHEMISTRY-I	
22UCHEA02: CHEMISTRY – II	
22UCHEP01: CHEMISTRY PRACTICAL – I	

	<p>2. To impart knowledge about Periodic Properties, Bonding Concepts, Ionic Bond, VSEPR and MO Theories.</p> <p>3. To acquire in-depth knowledge about Nomenclature of Organic Compounds, Hybridisation, Reaction Intermediates.</p> <p>4. To inculcate interest in Gaseous State, Kinds of velocities, Virial equation of state.</p> <p>Make the students to understand about Liquid state, Liquid crystals, Solid state, X-ray diffraction</p>
<p>22UICHC14: GENERAL CHEMISTRY – II</p>	<p>1) Lab safety and Nature of chemicals.</p> <p>2) Types of titrations and Concentration terms.</p> <p>3) Semimicro analysis and precipitation techniques.</p> <p>4) Organic analysis</p> <p>Logarithm, drawing graph, rules of differentiation and integration</p>
<p>22UICHA01: INDUSTRIAL CHEMISTRY – I</p>	<p>1) To enable the learners to understand the significance of Inorganic Cementing Materials.</p> <p>2) To know the details of, Portland cement, Glass, Ceramics, and Plasticity of Clay.</p> <p>3) To impart knowledge of Refractoriness and Portland cement.</p> <p>4) To be familiar with the details of adhesives.</p> <p>To understand the basic concepts and application of an Abrasives, Pulp and paper</p>
<p>22UICHC23: GENERAL CHEMISTRY – III</p>	<p>1) To obtain a comprehensive overview on s and p block elements.</p> <p>2) To understand the properties and reactions of alkanes, alkenes and alkynes.</p> <p>3) To impart knowledge regarding the basics of dienes and cycloalkanes.</p> <p>4) To understand the various terminologies and reactions related to Quantum Chemistry and Thermodynamics.</p>
<p>22UICHP24: VOLUMETRIC ANALYSIS</p>	<p>To understand the laws and reactions related to Thermochemistry</p> <p>1) To enhance the knowledge and principles behind volumetric analysis.</p> <p>2) To impart skills in weighing.</p> <p>3) To understand the principles of standardizing the solution using the analytical technique known as titration.</p> <p>4) To know about the uses of various indicators.</p> <p>To invoke the basic knowledge of various primary standard salts and their significance</p>
<p>22UICHA02: INDUSTRIAL CHEMISTRY – II</p>	<p>1) To understand the elaborate study of Fuels Introduction.</p> <p>2) To study the basic concepts and Classification of Coal by Rank.</p> <p>3) To know about the basic concepts of coking and gaseous fuels.</p> <p>4) To have a knowledge of Liquid fuels and Refining of Gasoline.</p> <p>To know the details of Residual fuel oils, Power alcohol</p>
<p>22UICHP01: INDUSTRIAL CHEMISTRY</p>	<p>1) To enable the learners to apply the principle in total dissolved solids, and suspended solids in the given water sample.</p> <p>2) To analyze samples with the best utilization of techniques that provides structural information.</p>

3) To get in-depth knowledge to determine the acid-neutralizing power of a commercially available antacid tablet.

4) To understand the principles of standardizing a solution of the base using the analytical technique known as titration.

5) To know about the practical applications of calcium in chalk - Permanganometry and pH .

To enable the learners to acquire knowledge on an acid-base scale

1. To recognize the causes of common diseases, their control and treatment

2. To understand the first aid for accidents

3. To study the organic pharmaceutical aids

4. To know about organic diagnostic agents

5. To have an idea about diabetes and cancer.

22UICHE26-1: HEALTH CHEMISTRY

22UICHE26-2: PHARMACEUTICAL CHEMISTRY

1. To know the basics of pharmaceutical chemistry

2. To realize the role of Indian medicinal plants and blood

3. To have an idea about alkaloids and sulphonamides

4. To distinguish about antibiotics and analgesics

5. To learn anaesthetics, antiseptics and disinfectants

22UICHE26-3: TEXTILE CHEMISTRY

1. To know the basics of fibres.

2. To realize the properties of fibres.

3. To learn processing of fibres.

4. To understand dye chemistry.

To learn dyeing process

1. To gain knowledge about p- Block Elements

2. To understand the importance of halogen family-classification, interhalogen compounds

3. To develop knowledge about aromaticity and electrophilic substitution reactions

4. To enlighten the students about nucleophilic substitution reactions

To expose the students to Second Law of Thermodynamics, Derivation of Equations, Related Problems and Applications wherever necessary

1) To enable the students' in-depth study of high polymers and mechanisms.

2) To know the details of the structure, Physical and Mechanical Properties of Polymers.

3) To understand the concept of Introduction to Rubber and Synthetic rubbers.

4) To understand the principles of quantum chemistry and Macromolecules.

To enable the learners to acquire knowledge in plastic materials

22UICHA03: INDUSTRIAL CHEMISTRY - III

22UICHE36-1: AGRICULTURAL CHEMISTRY

1. To know the importance of agricultural chemistry

2. To understand the role of fertilizers.

3. To have an idea about the effect of fertilizers and manures

4. To know about pesticides

5. To study fungicides and herbicides

22UICHE36-2: GREEN CHEMISTRY

1. To know the basics of Green Chemistry and its developments.

2. To know the principles of green chemistry.

3. To know the goals of Green Chemistry.

22UICHE36-3: BIOCHEMISTRY

4. To understand Limitations of green chemistry.

To study the obstacles in the pursuit of the goals of Green Chemistry

1. To provide basic knowledge about cells and Nucleic acids.
2. To Familiarize the students about enzymes.
3. To enhance the knowledge in Carbohydrate and protein metabolism.
4. To inculcate an interest to have an idea about Vitamins.

To make the students familiar in the deficiency diseases caused by vitamins

22UICHN37: MEDICINAL CHEMISTRY

- 1) To impart knowledge about Health and Nutrition
- 2) To understand the composition of blood, urine and serum.
- 3) To know about the common ailments like blood pressure, Diabetes etc.
- 4) To understand the significance of Indian medicinal plants in the treatment of chronic diseases.

To learn the basic idea of drugs and names of common drugs

22UICHS38 WATER TREATMENT AND ANALYSIS

1. To learn about various methods of water treatment.
2. To impart knowledge about water analysis.
3. To enhance the knowledge in water softening methods.
4. To instill an interest about the process involved in RO methods.

To make the students familiar in effluent treatment

22UICHC43: GENERAL CHEMISTRY – V

1. To give better understanding of Noble gases,
2. To study about Carboxylic Acids, Amines,
3. To learn about Alcohols, Phenols, Naphthol, Important Name Reactions, Mechanism,
4. To expose the students to III law of Thermodynamics
5. To understand about Partial Molar Properties, Chemical Potential, Related Problems and Applications.

22UICHP44 INORGANIC QUALITATIVE ANALYSIS

1. To describe the methodologies which aid in analysing the inorganic salt mixture
2. To identify both interfering and non-interfering anions.
3. To enable the students to develop analytical skill and perform a systematic qualitative analysis.

4.
To appreciate the various colored chemical reactions of metal ions.

To be aware of principle behind the reactions

22UICHA04 INDUSTRIAL CHEMISTRY - IV

- 1) To enable the learners to learn the principle of corrosion, galvanic corrosion, and its control.
- 2) To enable the students' in-depth study of metals and alloys, factors influencing corrosion.
- 3) To know the details of protective coatings.
- 4) To Provide an introduction to theory of Colour, classification of Inorganic pigments and its reaction chemistry, synthesis and its application. Understand the principles of chemical conversion, paints, and pigments.

To enable the learners to acquire knowledge in electrical insulating materials.

22UICHP04 INDUSTRIAL CHEMISTRY PRACTICAL -II

1) To know the percent purity of two commercially available aspirin tablets using an acid-base titration.

2) To understand the *percentage of purity of sodium bicarbonate* by conversion to sodium carbonate.

3) To enable the learners to learn the principle of Thermo-gravimetric analysis, accurate and responsive method of *moisture*.

4) To know the basic concepts of Volumetric analysis.

To train the students to become skilled person in saponification and also know the principles of chemical kinetics and to use them for stability testing and determination of expiry date of formulations

22UICHN47: CHEMISTRY IN TODAY'S WORLD

1) To help students visualize the importance of chemistry in today's world.

2) To know artificial sweetening agents and food preservatives.

3) To know about water treatment and industrial materials.

4) To understand the crux of chemistry in the field of cosmetology and its various implications.

To create awareness regarding fertilizers and manuring

22UICHS48: FOOD CHEMISTRY

1. To learn about the food and cereals.

2. To recognize the importance of sugar, vegetable and fruits.

3. To identify various beverages, appetizers.

4. To acquire knowledge about food preservation.

5. To know about food additives.

22UICHC51 INORGANIC CHEMISTRY-I

1. To know the tendency of transition metals and to know the catalytic properties of transition metals and industrial applications of their compounds.

2. To expose the students about the basic concepts of coordination complexes and the isomerism of coordination complexes.

3. To understand the theories of Coordination Compounds and their Properties.

4. To help the students to understand the facts of reactions and reaction mechanism in complexes.

To know the role and functions of conductors, superconductors and solid state materials.

22UICHC52 ORGANIC CHEMISTRY – I

1. To effectively impart knowledge about carbohydrates.

2. To enable the students to understand various stereoisomerisms and projection formulae for stereoisomers.

3. To acquire an in-depth knowledge of conformational analysis and their stability.

4. To cohesively understand the various reactions concerning nitro and amino compounds.

To acquire a comprehensive overview of heterocyclic compounds

22UICHC53 PHYSICAL CHEMISTRY-I

1. To impart knowledge in essential topics in Physical Chemistry such as Solution and Ionic Equilibria.

	<p>2. To gain knowledge about Phase Rule and its applications.</p> <p>3. To educate the students about Colligative Properties.</p> <p>4. To have an idea about Chemical Equilibrium.</p> <p>To understand the importance of Electrochemistry and its applications</p>
22UICHC54 ANALYTICAL CHEMISTRY	<p>1. To provide the basic idea of analytical techniques and to know about important terminologies involved in Error analysis,</p> <p>2. To study about the principles and classification of separation methods</p> <p>3. To expose the students the concepts of various chromatographic techniques.</p> <p>4. To impart wide knowledge about principles of gravimetric analysis and purification methods.</p> <p>5. To enlighten the students about the concepts and applications of Thermoanalytical methods and Electrochemical Techniques</p>
22UICHE58-1 POLYMER CHEMISTRY	<p>1. To know the chemistry of polymers and polymerisation</p> <p>2. To understand the properties and reactions of polymers</p> <p>3. To study the plastics and resins</p> <p>4. To know about chemistry of commercial polymers</p> <p>5. To have an idea about advances in polymers</p>
22UICHE58-2 SPECTROSCOPY – I	<p>1. To impart knowledge about various spectroscopic techniques.</p> <p>2. To understand the principle of UV, IR, Raman spectral techniques.</p> <p>3. To know the instrumentation of the above spectral techniques.</p> <p>4. To analyze simple compounds using the above spectral techniques</p> <p>5. To understand the structure simple compounds using the above spectral techniques</p>
22UICHE58-3 BASICS OF COMPUTER PROGRAMMING IN C AND ITS APPLICATIONS	<p>1. To acquire knowledge about the basic components of a computer and the operating system.</p> <p>2. To understand Hardware and Software.</p> <p>3. To understand Algorithm and Flowchart.</p> <p>4. To familiarize the students in C language.</p> <p>To understand the applications of computer software in Chemistry</p>
22UICHS59 APPLIED CHEMISTRY	<p>1. To impart Knowledge about Petrochemicals.</p> <p>2. To learn about the process involved in paper and pulp technology.</p> <p>3. To instill an interest about the process of sugar industry.</p> <p>4. To enhance the knowledge about explosives.</p> <p>To create an interest in leather chemistry</p>
22UICHC61 INORGANIC CHEMISTRY-II	<p>1. To know the tendency of Inner transition elements and to know the various processes involved in metallurgy.</p> <p>2. To introduce the students about the composition and stability of the nucleus and types of nuclear models.</p>

3. To help the students to understand the different types of radioactivity and their applications.

4. To help the students to understand the development and uses of bioinorganic compounds.

To develop an appreciation for the scope, diversity, and application of organometallic chemistry.

22UICHC62 ORGANIC CHEMISTRY – II

1. To acquire an in-depth knowledge of molecular rearrangements and their mechanisms.

2. To kindle interest in students in learning Bio-organic chemistry through the introduction of topics such as Proteins, Nucleic acids, Terpenes, Alkaloids etc.

3. To effectively impart knowledge about structural determination and isolation of alkaloids from plant sources.

4. To understand about antibiotics and terpenes and analyse their structures.

To provide comprehensive introduction to organosulphur compound and aromatic sulphonic compounds

22UICHC63 PHYSICAL CHEMISTRY – II

1. To equip the students to understand about Surface Chemistry.

2. To inculcate interest in Chemical Kinetics.

3. Enable the students to acquire an in-depth understanding on Photo Chemistry.

4. To understand the importance of about Surface Chemistry.

To invoke the basic knowledge of symmetrical elements and point group

22UICHP64 GRAVIMETRIC ANALYSIS AND ORGANIC PREPARATIONS

1. To enable the students to acquire basic skills in gravimetric analysis

2. To enhance the skills in various Organic Preparation methods

3. To understand simple Analytical Techniques like refluxing, recrystallisation and filtration etc;

4. To train the students to handle various types of crucibles used in Gravimetry.

5. To expose the students to various techniques like precipitation, digestion, filtration, drying etc

22UICHP65 ORGANIC QUALITATIVE ANALYSIS

1. To enable the students to develop analytical skills in organic qualitative analysis.

2. To enable the students to check the purity of Organic Compounds by determining Melting and Boiling Points.

3. To understand the techniques behind Boiling Point and Melting Point Determination.

4. To identify acidic, basic, phenolic and neutral organic substances by solubility tests.

To know how to detect special elements like nitrogen, sulphur and halogens

22UICHP66 PHYSICAL CHEMISTRY PRACTICALS

To enable the students to acquire analytical (both qualitative and quantitative) and psychrometer skills.

2. To train the students to handle various electrical instruments.

3. To learn the important concepts of Distribution law.

4. To inculcate the practical skills in both electrical and non-electrical instruments.

To introduce the principles behind kinetics experiments

22UICHE68-1 NANO CHEMISTRY

1. To introduce the basics of nanotechnology.

22UICHE68-2 SPECTROSCOPY – II

2. To learn about the types of nano particles.
3. To learn about various synthetic techniques of nano particles.
4. To learn about the applications of nano particles.

To learn the instrumental techniques used in characterization of nano materials

1. To impart knowledge about various spectroscopic techniques.
2. To understand the principle of UV, IR, Raman spectral techniques.
3. To know the instrumentation of the above spectral techniques.
4. To analyze simple compounds using the above spectral techniques.

To understand the structure simple compounds using the above spectral techniques

22UICHE68-3: ORGANIC SYNTHESIS

1. To introduce the basics of disconnection approach.
2. To learn about protecting groups.
3. To introduce one group C-C disconnections.
4. To introduce two group C-C disconnections.

To learn about ring synthesis

22UICHS69 DAIRY CHEMISTRY

1. To impart knowledge in Chemical composition of Milk.
2. Make the students to understand the Milk processing techniques.
3. Familiarize the students with the concepts of Milk product.
4. To teach the students about the properties of Milk.

To educate the students about Fermented Milk product

B.SC BOTANY

22UBOTC13: PHYCOLOGY AND BRYOLOGY

1. To understand the major groups of cryptogamic plants and their characteristics.
2. To study their interrelationships and trace their evolutionary trends.
3. To know the classification, life cycle and economic importance of Algae.
4. To understand Bryophytes and their salient features.

To learn the classification and economic importance of Bryophytes

22UBOTC14: MYCOLOGY AND LICHENOLOGY

- 1) To acquire thorough knowledge on the salient features of fungi and lichens.
- 2) To learn the major classes, types, structure and reproduction of various genera.
- 3) To study the classification, characteristic features, distribution, and reproduction cycle of fungi and lichens
- 4) To know the ecological and economic importance of fungi and lichens

To understand the concept of lichens as indicator for air pollution

22UZOOA01: ZOOLOGY – I ANIMAL DIVERSITY-I)

- 1) To learn the principles of animal taxonomy.
- 2) To learn the classification of animals upto class.
- 3) To enlighten the students about the diverse forms of Invertebrate and Vertebrate animals present around us.
- 4) To learn the salient features and various systems of different phyla.

22UBOTC23: MICROBIOLOGY AND PLANT PATHOLOGY

To help our students to distinguish various animals and to know the evolutionary sequence of them

1. To study the History and scope of microbiology.
2. To understand the classification, structure, bacteria and viruses.
3. To create the awareness on economic importance of microorganisms.
4. To study the classification and symptoms of plant diseases.

To study the infection, casual organism and control of some diseases

22UZOOA02: ZOOLOGY – II (ANIMAL DIVERSITY-II)

1) The study of Zoology aims to increase understanding of living systems.

2) To consider the systems in relationship to the self and other organisms in the natural environment.

3) To study the cytological and anatomical details of human.

4) To learn the basic principles of genetics and developmental growth.

To study the basic concepts of evolution

22UZOOP02: ZOOLOGY PRACTICAL

1) Learn and be familiar with the Laboratory techniques.

2) To understand the taxonomic position, body organization and evolutionary relationship of animals.

To inculcate the significance of various non chordates and chordates

22UBOTE26-1: HORTICULTURE

1. To understand the salient features of Horticulture

2. To know the importance of cultivating horticultural crops.

3. To learn plant propagation for horticulture

4. To promote educational and training opportunities and encourage the development of all disciplines within Horticulture

5. To Familiarize with the improving of the environment

22UBOTE26-2: SEED TECHNOLOGY

1. To acquire knowledge about seed technology

2. To realize the importance of seed technology in over all upgrading of the seed quality.

3. To know the various components and techniques of seed Technology

4. To gain knowledge about laws and rules of seed and seed technology.

5. To understand the concept of certified seeds

22UBOTE26-3: MEDICINAL BOTANY

1. To educate, study, develop, cultivate, benefits of medicinal plants

2. To understand salient features of Medicinal plants

3. To acquire the knowledge about Siddha, Aurvedha and Unani system of medicines

4. To stimulate Agro ecological practices.

5. To support research and the implementation of medicinal plant programmes and projects in the municipalities

22UBOTC33: PTERIDOLOGY, GYMNOSPERMS AND PALAEOBOTANY

1. To understand the distribution and classification of Pteridophytes.

2. To study the morphology and life cycle of various groups of Pteridophytes.

3. To understand the economic importance of Pteridophytes.
4. To adequate information to characteristics, classification ,economic importance and life cycle of Gymnosperms.

To understand the importance of various types of fossil plants and fossilization process in tracing evolution

Allied-II Paper-I 22UCHEA01: CHEMISTRY-I

- 1) To impart wide knowledge about Metallurgy.
- 2) To invoke the knowledge in basic concepts of chemistry.
- 3) To provide a knowledge on chemical kinetics.
- 4) To Familiarize the students about Industrial Chemistry.

To inculcate interest in Nuclear chemistry

22UBOTE36-1: ETHNOBOTANY

1. To learn about ethnic tribes in India
2. To understand the methodology of ethnobotany
3. To learn the documentation and use the ethnobotanical knowledge
4. To study about ethnobotanical medicinal sources
5. To learn bioprospecting use ethnobotanical knowledge

22UBOTE36-2: SEAWEED TECHNOLOGY

1. To study the occurrence and distribution of seaweeds
2. To identify the seaweeds of commercial importance
3. To acquire the skill of culturing microalgae in laboratory.
4. To learn methods of seaweed cultivation

To recognize various commercial products of seaweed origin

22UBOTE36-3: PLANT FIBRE TECHNOLOGY

1. To acquire a overall knowledge about plant fibre technology.
2. To know the various kinds of plants and their parts which yield fibres of different nature
3. To gain botanical, physical and chemical nature of plant fibres
4. To learn cultivation and extraction of plant fibres of commerce

To realize the socio-economic value of different plant fibres and their associated trades and industries

**22UBOTS38: SKILL BASED SUBJECT I
BIOFERTILISER PRODUCTION**

1. To understand the types of biofertilisers and importance
2. To be able to prepare cyanobacterial biofertilisers for use in field
3. To learn the method of Vermicomposting
4. To understand the importance of bacteria and VAM in phosphate solubilisation
5. To learn marketing of biofertilisers

**22UBOTC43: ANATOMY, EMBRYOLOGY AND
MICROTECHNIQUE**

1. To describe the types of plant tissues and their functions.
2. To understand internal structure of primary and secondary plant organs
3. To interpret different parts of an anther and ovule.
4. To appreciate the significance of double fertilization

To understand the microtechnique methods

**22UBOTP34/22UBOTP44: CORE PRACTICAL II:
(COVERING CORE COURSES IV AND V)**

1. To learn practical knowledge of internal structures of Pteridophytes
2. To know morphological characters and reproductive parts.
3. To gain knowledge of structure and reproductive parts of Gymnosperms
4. To study the fossil plants
5. To get practical training in Anatomy and Embryology

Allied II :22UCHEA02: CHEMISTRY – II

- 1) Make the students familiar with Coordination Chemistry.
- 2) To acquire thorough knowledge about Carbohydrates and proteins.
- 3) Enable the students to acquire knowledge in Electrochemistry.
- 4) To have an idea about paint and varnishes.
- 5) To create about knowledge in medicinal chemistry.

22UCHEP01: CHEMISTRY PRACTICAL – I

- 1) To help the students to develop the skills in Titrimetric Analysis.
- 2) To learn the basic analytical method.
- 3) To know about various indicators and their significance.
- 4) To impart knowledge about primary standard solution.

To enhance knowledge about stoichiometric relationship for standardization

**22UBOTS48: SKILL BASED SUBJECT I :
PRESERVATION OF FRUITS AND VEGETABLES**

1. To understand scientific principles in spoilage and preservation of fruits and vegetables
2. To understand the science behind food spoilage
3. To develop skill in the preservation of a wide variety of fruit and vegetable products- canning of fruits
4. To learn scientific method of drying of fruits
5. To learn packing and develop as an entrepreneur

**22UBOTC51: CORE COURSE VI MORPHOLOGY,
TAXONOMY AND ECONOMIC BOTANY**

1. To study the morphological features of plants.
 2. To understand the reproductive parts of the plants.
 3. To acquire the knowledge on principles and concepts of taxonomy
 4. To learn systematic position, characters and importance of selected families.
- To gain the knowledge on the economically important plants.

**22UBOTC52: CORE COURSE VII GENETICS,
PLANT BREEDING AND EVOLUTION**

1. To understand the basic principles of genetics, modern and molecular genetics.
 2. To discuss the hereditary characters, genetic material and breeding techniques.
 3. To learn to solve simple problems in Genetics
 4. To understand the concepts of plant breeding
- To understand the evolutionary concepts

**22UBOTC53: CORE COURSE VIII CELL AND
MOLECULAR BIOLOGY**

1. To understand the organization of cells.
2. To acquire knowledge on the structure and organization of various cell organelles.
3. To learn cell cycle and methods of cell division.

4. To understand the structural, organization and function of prokaryotic and eukaryotic genome.

To comprehend the basic cellular and molecular events

22UBOTC54: CORE COURSE IX : PLANT TISSUE CULTURE AND PLANT BIOTECHNOLOGY

1. To incubate the basics principles and cell differentiation for plant tissue culture.
 2. To study the sterilization, plant cell culture methods and culture media.
 3. To understand the various culture techniques and their morphogenesis.
 4. To assess Tools and Techniques of Plant Biotechnology
- To study the applications of Plant biotechnology

22UBOTE58: INTERNAL ELECTIVE III A. FORESTRY AND SILVICULTURE

1. To understand the definition and scope of forestry
2. To study types of forests and their importance in ecology
3. To learn the Silvicultural elements of important tree species for forest management
4. To understand the concepts of tree improvement
5. To study about preservation of sanctuaries

22UBOTE58: INTERNAL ELECTIVE III : B. MUSHROOM CULTURE TECHNOLOGY

1. To strengthen the promotion of mushroom cultivation practices.
 2. To understand the techniques involved in the cultivation of edible mushrooms.
 3. To study the different preparation in pure culture methods.
 4. To create awareness in the production and consumption of mushrooms.
- To explain the food types prepared from mushrooms and export value

22UBOTE58: INTERNAL ELECTIVE III C. BIOINSTRUMENTATION

1. To study the principles of various biological techniques and their application.
2. To understand the basic application and working principles of Biological techniques.
3. To learn the usage and maintenance of common instruments for Biology
4. To understand separation techniques
5. To become aware of the role of instrumentation in Biology

22UBOTS59: SKILL BASED SUBJECT III : NURSERY AND LANDSCAPING

1. To understand the prospects and scope of landscaping
 2. To develop a skill in nursery management and landscaping
 3. To learn nursery keeping techniques
 4. To train on landscaping methods
- To make an entrepreneur out of any student willing to develop this skill

22UBOTC61: CORE COURSE X PLANT ECOLOGY AND PHYTOGEOGRAPHY

1. To identify and describe the structure of an ecosystem.
 2. To compare the adaptations found in plants growing in different habitats.
 3. To recognise the importance of Plant conservation.
 4. To acquire knowledge on the use of remote sensing in mapping the vegetation.
- To analyse the vegetation types of India

22UBOTC62: CORE COURSE XI BIOCHEMISTRY, BIOINFORMATICS AND BIOSTATISTICS

1. To identify different types of bonds found in biomolecules.

**22UBOTC63: CORE COURSE XII PLANT
PHYSIOLOGY**

2. To interpret the structure of Carbohydrates, Proteins and Lipids.
3. To explain the role of enzymes as biocatalysts.
4. To describe different biological databases used in Bioinformatics.
5. To introduce the concepts in Genomics and Proteomics.
6. To understand the concepts of Biostatistics
1. To acquire knowledge of mechanism of water and mineral absorption in plants.
2. To explain the steps involved in Nitrogen metabolism.
3. To describe the mechanism of photosynthesis and respiration.
4. To appreciate the role of plant growth hormones in different stages of plant development.

**22UBOTE66: INTERNAL ELECTIVE IV A.
PHYTOCHEMISTRY**

5. To understand the mechanism of stress tolerance in plants
1. To explain the developments in the field of phytochemistry
2. To describe the primary and secondary metabolites of plants
3. To analyse .
4. To perform biochemical tests to confirm the identity of active ingredients in crude drugs.

**22UBOTE66: INTERNAL ELECTIVE IV B.
ORGANIC FARMING**

- To identify the medicinal plants of therapeutical value
1. To acquire knowledge about organic farming
 2. To know the concept of organic farming
 3. To know the aims and realize the needs of organic farming
 4. To know the Ramis and legal acts governing organic products.
 5. To learn to transfer knowledge to farmers

**22UBOTE66: INTERNAL ELECTIVE IV C.
INVASION BIOLOGY**

1. To understand the nature and ability of invasive plant species.
2. To study the invasive plants of terrestrial and aquatic environments.
3. To understand the impact of invasive plants on the environment.
4. To acquire knowledge on climate change and economic loss posed by invasive species.
5. To learn the control measures of biological invasions

**22UBOTS59: SKILL BASED SUBJECT IV PLANT
DYES AND PIGMENTS**

1. To acquire overall knowledge about natural dyes and pigments.
 2. To know the advantages, sources, nature and application of natural dyes and pigments.
 3. To know the various plants and plant parts which yield various kinds of dyes and pigments of socio and economic values.
 4. To gain knowledge over the extraction and dyeing techniques of vegetable dyes.
- To learn to commercialise vegetable dyes as a sustainable measures

**22UBOTA01: ALLIED BOTANY – I : PLANT DIVERSITY
ANATOMY, EMBRYOLOGY**

1. To understand the major groups of plants and their characteristics.
2. To render the structural and reproductive stages of major groups of plants with appropriate type study.

**22UBOTA02: ALLIED BOTANY - II
MORPHOLOGY, TAXONOMY, PHYSIOLOGY
ECOLOGY AND BIOTECHNOLOGY**

3. To impart the knowledge on the life cycle patterns of major groups of plants.
 4. To Gain knowledge about anatomy of stem, root and leaf and their secondary growth.
- To Grasp the idea of double fertilization, types of endosperms, and dicot embryo development

1. To understand external features of plants
2. To familiarize range of characters and economic importance of some families.
3. To know structure of mature anther and types of ovules.
4. To understand physiology mechanisms of plant.

To acquire knowledge of ecosystem and environmental pollution

1. To make suitable micro preparations of Algae, Fungi, Bryophytes, Pteridophytes, Gymnosperms (mentioned in the theory syllabus) and to describe and identify the same.

2. To make suitable micro preparations and detailed microscopic analysis of Dicot and Monocot Stem, root and leaf and to identify the same giving reasons.

3. To study the normal secondary thickening in dicot stem and root.

4. To study the internal structure of a mature anther.

5. To study the different types of ovules and endosperms.

6. To describe in technical terms, plants belonging to any of the families prescribed and to identify the family.

7. To dissect a flower, construct floral diagram and write floral formula.

8. Demonstration experiments 1. Ganong's Light screen 2. Ganong's respiroscope.

9. To identify Spotters- Morphology of flowering plants, Taxonomy, Plant Physiology, Plant Biotechnology and Ecology.

To maintain observation and record note book

1. To understand external features of plants
2. To familiarize range of characters and economic importance of some families.
3. To know structure of mature anther and types of ovules.
4. To understand physiology mechanisms of plant.

To acquire knowledge of ecosystem and environmental pollution

**22UBOTP02: ALLIED BOTANY PRACTICAL I
COVERING ALLIED BOTANY - I & II**

**22UBOTA25/22UBOTA45: ALLIED BOTANY
PAPER II: MORPHOLOGY, TAXONOMY,
PHYSIOLOGY ECOLOGY AND
BIOTECHNOLOGY**

- 1) To obtain broad knowledge about different kinds of animal species of invertebrates.

- 2) To understand the systematic and functional morphology of various groups of invertebrates

- 3) To study their economic importance, affinities and adaptations.

<p>22UZOOC14: INVERTEBRATA - II</p>	<p>4) To understand the role of invertebrates in biological communities, ecological interactions and conservation problems</p> <p>To assess the diversity of animals in a phylogenetic conditions</p> <ol style="list-style-type: none"> 1) To obtain broad knowledge about different kinds of animal species of invertebrates. 2) To understand the systematic and functional morphology of various groups of invertebrates 3) To study their economic importance, affinities and adaptations. 4) To understand the role of invertebrates in biological communities, ecological interactions and conservation problems
<p>22UBOTA01: ALLIED BOTANY – I : PLANT DIVERSITY,ANATOMY, EMBRYOLOGY</p>	<p>To assess the diversity of animals in a phylogenetic conditions</p> <ol style="list-style-type: none"> 1. To understand the major groups of plants and their characteristics. 2. To render the structural and reproductive stages of major groups of plants with appropriate type study. 3. To impart the knowledge on the life cycle patterns of major groups of plants. 4. To Gain knowledge about anatomy of stem, root and leaf and their secondary growth. <p>To Grasp the idea of double fertilization, types of endosperms, and dicot embryo development</p> <ol style="list-style-type: none"> 1) To gain knowledge about the importance of environmental sciences and natural resources. 2) To learn the concept, structure and function of ecosystem and the importance of biodiversity. 3) To understand and gain knowledge about environmental pollution and management. 4) To impart knowledge about social issues and human population. <p>To acquire the skills for identifying and solving pollution problem</p>
<p>22UENVS 18: ENVIRONMENTAL STUDIES</p>	<p>1 To understand the taxonomy and relationship and evolution of animals.</p> <p>2 To understand the systematic and functional morphology of various groups of Chordates</p> <p>3 To study their economic importance, affinities and adaptations.</p> <p>1. To understand the role of vertebrates in biological communities, ecological interactions and conservation problems</p> <p>5 To assess the diversity of animals in a phylogenetic conditions.</p>
<p>22UZOOC23: CHORDATA</p>	<p>1) To gain knowledge about the importance of environmental sciences and natural resources.</p> <p>2) To learn the concept, structure and function of ecosystem and the importance of biodiversity.</p> <p>3) To understand and gain knowledge about environmental pollution and management.</p> <p>4) To impart knowledge about social issues and human population.</p> <p>To acquire the skills for identifying and solving pollution problem</p>
<p>22UZOOP24: INVERTEBRATA AND CHORDATA</p>	<p>1 To understand the taxonomy and relationship and evolution of animals.</p> <p>2 To understand the systematic and functional morphology of various groups of Chordates.</p> <p>3 To study their economic importance, affinities and adaptations.</p> <p>4) To understand the role of vertebrates in biological communities, ecological interactions and conservation problems</p>
<p>22UBOTA02: ALLIED BOTANY - II MORPHOLOGY, TAXONOMY, PHYSIOLOGY ECOLOGY AND BIOTECHNOLOGY</p>	<p>To assess the diversity of animals in a phylogenetic conditions</p> <ol style="list-style-type: none"> 1. To understand external features of plants

**22UBOTP02: ALLIED BOTANY PRACTICAL I
COVERING ALLIED BOTANY - I & II**

2. To familiarize range of characters and economic importance of some families.
3. To know structure of mature anther and types of ovules.
4. To understand physiology mechanisms of plant.

To acquire knowledge of ecosystem and environmental pollution

1. To make suitable micro preparations of Algae, Fungi, Bryophytes, Pteridophytes, Gymnosperms (mentioned in the theory syllabus) and to describe and identify the same.

2. To make suitable micro preparations and detailed microscopic analysis of Dicot and Monocot Stem, root and leaf and to identify the same giving reasons.
3. To study the normal secondary thickening in dicot stem and root.
4. To study the internal structure of a mature anther.
5. To study the different types of ovules and endosperms.
6. To describe in technical terms, plants belonging to any of the families prescribed and to identify the family.
7. To dissect a flower, construct floral diagram and write floral formula.
8. Demonstration experiments 1. Ganong's Light screen 2. Ganong's respiroscope.
9. To identify Spotters- Morphology of flowering plants, Taxonomy, Plant Physiology, Plant Biotechnology and Ecology.

To maintain observation and record note book

22UZOOE27-1: BIODIVERSITY CONSERVATION

- 1) To give the student insight of scientific developments in Conservation of Biodiversity.
- 2) To understand the distribution of species and threats to concerning biodiversity.
- 3) To study the climate change and its problems in conservation of biodiversity.
- 4) To study the various conservation measures adopted in India.

To make the student get aware with various legislations related to wildlife and conservation.

22UZOOE27-2: VECTOR BIOLOGY

- 1) To acquire Knowledge of the types of vectors, host, parasite and their control.
- 2) To study the types of metamorphosis and disease transmission cycle of Vector.
- 3) To learn morphology, life cycle, diseases transmission and control measures of Housefly and Sandfly.
- 4) To learn morphology, life cycle, diseases transmission and control measures of Fleas, Lice and Ticks.

To learn morphology, life cycle, diseases transmission and control measures of Cyclopes and freshwater snail and to emphasis the National and International programmes and Agencies in vector control

22UZOOE27-3: AQUACULTURE

- 1) To acquire knowledge about the important of aquaculture.
- 2) To know the different types of culture and pond management.
- 3) To obtain knowledge about cultivable species and aquarium keeping.

22UZOOC33 COURSE TITLE:CELL AND MOLECULAR BIOLOGY

4) To gather information about poly culture
To learn the role of organizations and funding agencies involved in aquaculture

- 1) Have an enhanced knowledge on microscopes, cytological techniques.
- 2) To provide a basic information on structure and functions of cell and cell organelles.
- 3) To gain an understanding of chemical and molecular processes that occur in and between cells.
- 4) To provide the basic knowledge on biochemical and cell culture techniques .
- 5) To give in-depth knowledge of biological and medicinal processes through the investigation of the underlying molecular mechanisms.

22UCHEA35: ALLIED CHEMISTRY-I

- 1) To impart wide knowledge about Metallurgy.
- 2) To invoke the knowledge in basic concepts of chemistry.
- 3) To provide a knowledge on chemical kinetics.
- 4) To Familiarize the students about Industrial Chemistry.

To inculcate interest in Nuclear chemistry

22UZOEE36-1: PUBLIC HEALTH AND HYGINE

1. To impart awareness on public health, Hygiene and diseases.
2. To educate and emphasize on preventive measures of diseases.
3. To create knowledge on Health Education.
4. To explain why having good personal hygiene is important.
5. To list and discuss how to have good personal hygiene.

22UZOEE36-2 APPLIED MICROBIOLOGY

1. The course is intended to make an awareness of the students about the classification, diversity, organization and signification.
2. Application and pathogenicity of the microorganisms existing the ecosystem.
3. The course will help the students to learn about the various microbial culture techniques and its handling.
4. The course will give an idea that how microbes are used in various industries for generation of various products related to day to day life.

To provide students with the latest information in scientific microbiological methods.

22UZOEE36-3: ANIMAL BEHAVIOUR

1. Distinguish between the four major categories (mechanism, ontogeny, adaptive value, and phylogeny) of explanations for animal behaviour
2. Explain how behavioural hypotheses are created and formulate hypotheses that explain a given behaviour
3. Understand the role of natural and sexual selection in the evolution of behaviour
4. Understand the ecological context of an animal's behavioural sequence
5. Understand some of the mechanisms involved in the production of a behavioural sequence by an animal

22UZOON37: ECONOMIC ZOOLOGY

1. To encourage young learners to take up the small scale industries
2. To generate motivation for self-employment
3. To disseminate information on economic aspects of zoology
4. To inculcate knowledge on useful animals to mankind

22UZOOS38: VERMICULTURE

5. To satisfy the learners with modern techniques of animal culture
1. To acquire knowledge about biofertilizer
2. To impart training on Earthworm culture technology
3. To create knowledge on Self - Employment opportunity
4. To understand the potential of vermicompost as an alternative to chemical fertilizer
5. To understand the role of vermiculture in protecting the environment and managing the waste

22UZOOC43: GENETICS

1. To enable the students understand the basic principles of inheritance.
2. To learn polygenic inheritance, linkage and crossing over.
3. To understand genetics of Sex determination and sex linked inheritance.
4. To acquire knowledge of the gene structure and mutation.
5. To understand the human genetic characters and disorders.

22UZOOP44: PRACTICAL – II (Cell and Molecular Biology & Genetics)

1. To impart training on the principles of microscope and their importance in cell study.
2. To train the students to prepare the smear and squash of blood and other cells to observe different types of cell structure.
3. To impart training on the principles of genetics, the role of genes and their inheritance.
4. To emphasize the knowledge about certain phenotypic characters and genic interactions.
5. To inculcate good laboratory practices in students and to train them about to basic patters of inheritance in organisms, emphasize the human genetic characters and disorders and understand the pedigree charts of various characters.

22UCHEA02: ALLIED CHEMISTRY-II

- 1) Make the students familiar with Coordination Chemistry.
 - 2) To acquire thorough knowledge about Carbohydrates and proteins.
 - 3) Enable the students to acquire knowledge in Electrochemistry.
 - 4) To have an idea about paint and varnishes.
- To create about knowledge in medicinal chemistry

22UCHEAP46: ALLIED CHEMISTRY PRATICALS

- 1) To help the students to develop the skills in Titrimetric Analysis.
 - 2) To learn the basic analytical method.
 - 3) To know about various indicators and their significance.
 - 4) To impart knowledge about primary standard solution.
- To enhance knowledge about stoichiometric relationship for standardization

22UZOON47: ORNAMENTAL FISH CULTURE

1. To inculcate importance of ornamental fish farming in relation with entrepreneurship development
2. To give students knowledge about various techniques of ornamental fish breeding, rearing and its marketing to make them self sustainable after graduation
3. To teach techniques of construction of glass aquarium and its maintenance.

4. To teach students about fish food production and health related problems with ornamental fish.

5. To encourage and promote the science of keeping an aquarium

22UZOOS48: APICULTURE

1. To acquire knowledge of different species of honey bees and their biology.

2. To understand the social organization and behaviour of bees.

3. To gain the knowledge of tools required in Bee Keeping and hive maintenance.

4. To obtain the knowledge to protect the bee hives from enemies and diseases.

5. To acquire Knowledge of harvesting bee products from the combs and work out business plan and economics of apiculture.

1. To make aware of the students about the theories, concepts and basics of Developmental Biology.

22UZOOC51 DEVELOPMENTAL BIOLOGY

2. To provide students the idea of sex cells, fertilization, cleavage, differentiation

3. To make aware of the students about organogenesis.

4. To acquire knowledge about Organizer concept, Nuclear transplantation, Regeneration types and Methods to culture embryo.

5. To provide knowledge about Placentation and Techniques

22UZOOC52 - ANIMAL PHYSIOLOGY

1. To emphasize the basic needs of macromolecules of food and their importance

2. To study the basic principles of animal Physiology.

3. To understand the physiology of various organs and organ systems

1. To study the structure of biomolecules and their importance in the life process.

22UZOOC53: BIOCHEMISTRY

2. To define and explain the basic principles of biochemistry

3. be familiar with the enzymes (biocatalysts), and their salient attributes including unique conformation and amazing catalytic properties.

4. interpret the structure-function relationships of the proteins, carbohydrates, lipids, and nucleic acids.

5. demonstrate basics of enzyme catalyzed reactions and their mechanisms

22UZOOC54 BIOTECHNOLOGY & BIOINFORMATICS

1. Revolutionary scientific discipline which will provide platform to understand biology more technically.

2. It will pave way for understanding the application of each gene and its specific applications.

3. Will enable to do wet laboratory experiments with or without support of dry laboratory techniques.

4. To impart an introductory knowledge about the subject of Bioinformatics to the students studying any discipline of science.

5. Will enable to work in dry lab & minimize time on wet laboratory experiments.

22UZOOE58A : Poultry Farming

1. To understand the poultry industry based on the past, present and emphasis of future growth

2. To study the statistical data and various functions involved in poultry industry.

3. To identify many types of poultry that exist other than chickens
4. To understand the biology, nutritional needs and reproductive traits of poultry
5. To understand the equipment utilized in a poultry operation

22UZOOE58B APPLIED ENTOMOLOGY

- 1) 1. To provide extensive knowledge in the field of applied entomology.
- 2) Be able to categorize insects based on basic ecological, behavioral, morphological, physiological or developmental attributes.
- 3) The familiarity between insect and environment was highlighted to various field like agricultural entomology, medical entomology and industrial entomology.
- 4) To understand about productive insects and their biology.
- 5) To acquire knowledge about various pest control methods and approaches to the biological control of insect pests.

22UZOOE58C : NANOTECHNOLOGY IN LIFE SCIENCES

1. To understand the basics and future of nanotechnology.
2. To know the physico-chemical properties of the nanomaterial in life sciences.
3. To understand its usage at molecular level.
4. To know the types / shapes involved in nanomaterial production.
5. To understand their applications for mankind.

22UZOO59: Mushroom culture

1. To emphasize the importance of integrating new knowledge on food biotechnology
2. To update the technological innovations of edible mushrooms and their application in Nutrition
3. To study the morphology and types of Mushrooms
4. To know the spawn production technique
5. To aware the identification of edible and poisonous Mushrooms and To learn the prospects and scope of mushroom cultivation in small scale industry

22UZOO61 - ECOLOGY

1. To learn the scope of environmental biology, importance of protection and conservation of wild life to maintain the ecosystem balance.
2. To realize the importance of inter relationship between every organism and environment.
3. To study the impact of eco factors on the morphology & distribution of organisms.
4. To create the awareness about the environmental problem and motivate the students to participate in environmental production
5. To create awareness towards recent changes in the environment and preventive measures.

22UZOO62 EVOLUTION

1. To develop an idea of the adaptations and its significance in relation to evolution.
2. To make the students aware of how organic evolution occurred and how the various life forms come into existence.
3. To learn the origin of life and geological time scale and theories of evolution.
4. To learn about mechanisms of evolution.
- To learn speciation and evolution of man

22UZOO63: MICROBIOLOGY & IMMUNOLOGY

1. To understand classification of microorganisms.
2. To know the methodologies of culturing bacteria.
3. To distinguish communicable and non-communicable diseases.
4. To impart knowledge on the defense system of our body.

5. To learn about molecules or cells involved and impact of defective defense system.

**22UZOOP64 CORE PRACTICAL – III COURSE
TITLE:DEVELOPMENTAL BIOLOGY, ANIMAL
PHYSIOLOGY BIOCHEMISTRY AND
BIOTECHNOLOGY & BIOINFORMATICS**

1. To give students competent lab skills in developmental biology
2. To give students competent lab skills in animal physiology
3. To give students competent lab skills in Biochemistry
4. To give students competent lab skills in Biotechnology
5. To give students competent lab skills in Bio-informatics

22UZOOP65 : Ecology Evolution, Microbiology & Immunology

1. Learn basic sterility techniques in a lab.
2. To handle microbial samples.
3. To understand the water: quality-portable or not.
4. To determine the biological results in numerical value.
5. To handle equipments in the laboratory.

22UZOEE66A - BIO- FERTILIZER PRODUCTION

To impart awareness on bio fertilizer technology

To create knowledge on Environmental degradation.

22UZOEE66B HUMAN ENDOCRINOLOGY

1. To understand the objectives of endocrinology.
 2. To learn general concepts of hormones and pituitary gland.
 3. To study the comparative account and functions of endocrine glands of vertebrates.
 4. To acquire knowledge in the endocrinological basis of vertebrate reproduction.
- Clinical endocrinology plays a vital role in clinical biochemistry and metabolism

22UZOEE66-3 MEDICAL LABORATORY TECHNIQUES

LO1 Understand protocols and procedures to collect clinical samples for blood analysis and to study human physiology.

LO2 Explain the characteristics of clinical samples and demonstrate skill in handling clinical equipment.

LO3 Evaluate the hematological and histological parameters of biological samples.

22UZOOS68: Aquarium Fish Keeping

1. To impart training on Aquarium fish keeping technology
2. To create knowledge on self employment opportunity.
3. To inculcate importance of ornamental fish farming in relation with entrepreneurship development.
4. To give students knowledge about various techniques of ornamental fish breeding, rearing and its marketing to make them self sustainable after graduation.
5. To teach techniques of construction of glass aquarium and its maintenance.

B.Sc. Microbiology

22UMICC13: FUNDAMENTALS OF MICROBIOLOGY

- 1) To enhance the student's knowledge and impress upon the important aspects of Microbiology
- 2) To have a basic idea of microscopic techniques
- 3) To describe the morphological features of bacteria

22UMICC14: MICROBIAL DIVERSITY AND TAXONOMY

- 4) To understand the concept of sterilization and disinfection
- 5) To learn the practical aspects of maintaining pure culture

- 1) To analyse the microbial diversity and evolution
- 2) To obtain knowledge about the taxonomical classification of Microorganisms
- 3) To understand the classification and important groups of bacteria
- 4) To understand the classification and important groups of algae and fungi
- 5) To understand the classification and important groups of protozoa and viruses

22UBIOA01: BIOCHEMISTRY I

- 1) To acquire knowledge on the structure and classification of bio molecules
- 2) To gather information about the characteristic features of bio molecules
- 3) To analyse the role of carbohydrate in the cell wall
- 4) To study about the bonds in the stabilisation of bio molecules.

To gain knowledge about the functions of bio molecules

22UMICC23: MICROBIAL PHYSIOLOGY

- 1) To distinguish different nutritional types of microorganisms
- 2) To provide the basic knowledge of microbial growth
- 3) To make the students understand carbohydrate metabolism
- 4) To learn about anaerobic respiration
- 5) To study the process of microbial photosynthesis

22UMICP24: BASIC MICROBIOLOGY PRACTICAL

- 1) To impart hands on training on the observation and culture of Microbes
 - 2) To isolate microorganisms from samples
 - 3) To identify bacteria using biochemical tests
 - 4) To study the factors affecting bacterial growth
- To preserve bacterial cultures

22UBIOA02: BIOCHEMISTRY II

- 1) To acquire a wide knowledge on metabolism
- 2) To gain knowledge about disorders of metabolism
- 3) To study the biological functions of vitamins and minerals
- 4) To gather information about enzyme structure and function.
- 5) To analyse the importance of vitamins and minerals

22UBIOP01: ALLIED BIOCHEMISTRY PRACTICAL - I

- 1) To acquire a wide knowledge on the qualitative analysis
- 2) To gain information in quantitative analysis
- 3) To study the function groups in biomolecules
- 4) To analyse the biological substance by titrimetric method.

To differentiate the carbohydrate by microscopic examination of the crystal structure

22UMICE26-1: CELL BIOLOGY AND MOLECULAR BIOLOGY

- 1) To understand the structures and purposes of basic components of prokaryotic and eukaryotic cells
- 2) To acquire knowledge of genome organization and cell division
- 3) To know about cell signalling molecules
- 4) To learn the basic concept of molecular biology

22UMICE26-2: BIOSTATISTICS

5) To provide basic information of gene expression and regulation

- 1) To understand the basic principle of statistics
- 2) To acquire knowledge about statistical tools
- 3) To know about statistical calculations
- 4) To learn the applications of statistics in biology

5) To make use of statistics in basic studies

22UMICE26-3: BIOINSTRUMENTATION

1) To learn the fundamentals of centrifuge and the applications.

- 2) To acquire knowledge on colorimetry and types of spectroscopy
- 3) To study about chromatography
- 4) To understand the Electrophoresis techniques and the applications

To provide knowledge on Radioisotopic techniques

22UMICC33: IMMUNOLOGY

1. To acquire basic knowledge of Immune system and the lymphoid organs.

2. To know the detailed aspects of immunity types and pathways of complement.

3. To learn about the properties, types and the interactions of antigen and antibodies.

4. To gain the knowledge on Hypersensitivity and Auto immunity.

5. To understand about MHC and Cancer Immunology

22UMICA03: ENTOMOLOGY

1. To provide extensive knowledge in the field of applied entomology.

2. The familiarity between insect and environment was highlighted to various field like agricultural entomology, medical entomology and industrial entomology

22UMICE36-1: PHARMACEUTICAL MICROBIOLOGY

To understand the Basic pharmacology concept.

2. To understand the Microbial Pharmaceuticals sources.

3. To learn concept of Mechanism and Action of Antimicrobial agent.

4. To know about the Production of Vaccine.

5. To study about the Techniques pharmaceuticals

22UMICE36-2: ANTIMICROBIAL AGENTS AND RESISTANCE

1. To improve awareness about antimicrobial agents.

2. To improve awareness to understand antimicrobial Resistance.

3. To obtain knowledge about some drugs and their resistance.

4. To obtain knowledge about the impact of antimicrobial resistance.

5. To provide an awareness about education and training of antimicrobial agents.

22UMICN37: MICROBIAL DISEASES OF HUMAN

1. To understand the diseases, infections, transmission

2. To acquire knowledge about Diarrhoeal Diseases

3. To know about Vectorborne diseases

4. To learn the Airborne infections

5. To provide basic information about Sexually transmitted diseases

22UMICS38: ALGAL TECHNOLOGY

To learn the basics and applications of Algal Technology

22UMICC43: MICROBIAL GENETICS

1. To understand the basic concept of DNA and RNA structure.

2. To understand gene regulation of prokaryotic and eukaryotic organisms.

3. To learn the concept of lac and trp operon.

4. To know about the Gene transfer mechanisms.

5. To study about the Gene mutation

22UMICP44: IMMUNOLOGY AND MICROBIAL GENETICS PRACTICAL

1. To impart hands on training in Immunology and Microbial genetics
2. To perform blood grouping
3. To perform agglutination tests
4. To study blood smear
5. To isolate mutants

22UMICA04: GENETICS

To provide basic knowledge in the field of genetics and applications of modern genetics

22UMICN47: MICROBIAL TECHNOLOGY

1. To provide the first- line knowledge of utilizing microbes for the industrial production.
2. To learn the production of Biofertilizer and the application of Bioremediation.
3. To know the economically viable products from Algae.
4. To learn the mushroom cultivation technique.
5. To gain the knowledge of and Biogas Production

22UMICS48: MEDICAL LABORATORY TECHNOLOGY

1. To appreciate the importance of medical laboratory apparatus and safety measures.
2. To learn about various biochemical analysis procedures
3. Understand the histological procedure and stains
4. To gain knowledge of importance of blood and its examination

To know about the haematological indices

22UMICC51: SOIL AND AGRICULTURAL MICROBIOLOGY

1. To understand the distribution of microorganisms in soil
2. To acquire knowledge of biological nitrogen fixation
3. To know about various microbial diseases of plants
4. To learn about PGPR and biocontrol agents

22UMICC52: MEDICAL BACTERIOLOGY AND MYCOLOGY

5. To illustrate the types and characteristics of biofertilizers
1. To understand the bacterial pathogens and their virulence pattern
2. To learn about enteric pathogens
3. To learn about bacterial pathogens
4. To study the basics of mycology
5. To study the Fungal pathogens

22UMICC53: INDUSTRIAL MICROBIOLOGY

1. To know the industrial importance of microorganisms
2. To know about design of fermenters and its types.
3. To learn the media formulation and fermentation process.
4. To comprehend the techniques and underlying principles in downstream processing.
5. To appreciate how microbiology is applied in the production of industrially useful compounds

22UMICC54: FOOD MICROBIOLOGY

1. To learn the basic relationship between food and microorganisms
2. To understand the principles of food preservation and food Sanitation
3. To acquire knowledge on fermented foods
4. To analyze the mechanisms of food spoilage
5. To understand food borne diseases and food standards and quality assurance

22UMICE58-1: BIOINFORMATICS

1. To introduce computers in biological studies
2. To learn about biological databases.
3. To obtain knowledge about sequence alignment.
4. To obtain knowledge about protein sequences.
5. To provide information on phylogenetic analysis

22UMICE58-2: BIO-NANOTECHNOLOGY

1. To understand the basic Introduction and history of nanoparticles.
2. To understand the Microbial synthesis of nanoparticles.

22UMICE58-3: MARINE MICROBIOLOGY

3. To learn concept of physical and chemical properties of nanoparticles.
4. To known about the Polymeric, Lipid nanoparticles for drug delivery.
5. To study about the Health and safety implication from nanoparticles

1. To understand Microbial Diversity and significance.
2. To understand the role of microorganisms in the ocean.
3. To obtain the knowledge about cultivation of marine microbes.
4. To gain a deep knowledge about planktons and fisheries.
5. To obtain knowledge about marine microbial products

22UMICS59: MUSHROOM TECHNOLOGY

1. To obtain a good knowledge about Mushroom cultivation.
2. To differentiate edible and Poisonous Mushrooms and their effects.
3. To list the importance of Mushroom.
4. List out the Nutrient Profile of Mushroom.
5. To obtain a good understanding of Mushroom cultivation and its disease control

22UMICC61: ENVIRONMENTAL MICROBIOLOGY

1. To learn microbial association and their roles in environments.
2. To enumerate air borne microorganisms and their role in air
3. To gain knowledge on microorganisms in aquatic ecosystem.
4. To obtain knowledge about Bioremediation mechanisms by Microbes.
5. To describe the process of solid waste treatment and determine the role of microorganism in Water pollution and water quality

22UMICC62: MEDICAL PARASITOLOGY AND VIROLOGY

1. 1. To understand the fungal pathogens and their virulence pattern
2. To learn about enteric Parasites of Human
3. To learn about the pathogenicity of parasites of other body sites
4. To study the basics of virology
5. To study the viruses of human

22UMICC63: MICROBIAL BIOTECHNOLOGY

1. To provide the first- line knowledge of utilizing microbes for the industrial production.
2. To learn the production of Biofertilizer and the application of Bioremediation.
3. To know the economically viable products from Algae.
4. To learn the mushroom cultivation technique.
5. To gain the knowledge of and Biogas Production

22UMICP64: APPLIED MICROBIOLOGY PRACTICAL

1. To impart hands on training on the culture of Microbes from Soil, Plants, Industrial, Food and Environment
2. To enumerate Microbes from Soil, Plants, Industrial, Food and Environment
3. To observe Microbes from Soil, Plants, Industrial, Food and Environment
4. To isolate Microbes from Soil, Plants, Industrial, Food and Environment
5. To identify Microbes from Soil, Plants, Industrial, Food and Environment

22UMICP65: MEDICAL MICROBIOLOGY PRACTICAL

1. To impart hands on training on the culture of Microbes from clinical samples
2. To isolate bacteria from clinical samples
3. To observe bacteria from clinical samples

22UMICE66-1: INTELLECTUAL PROPERTY RIGHTS AND BIOETHICS

4. To observe fungi from clinical samples
5. To find out the antibiotic susceptibility pattern of bacterial pathogens

1. To attain knowledge about intellectual property
2. To understand the Patents
3. To learn about Copy rights
4. To understand Trademarks
5. To know about geographical indications

22UMICE66-2: GENETIC ENGINEERING

1. To get introduced about the concept of recombinant DNA.
2. To appreciate the types and role of vectors in rDNA technology.
3. To know the steps in gene library construction.

4. To learn the gene transfer methods in rDNA technology
5. To translate the rDNA basics as application in various fields

22UMICE66-3: ENTREPRENEURIAL MICROBIOLOGY

1. To learn the basic concepts related to entrepreneurship within the life science sectors.
2. To develop as an entrepreneur by imparting knowledge on industrial production of economically important products using SCP.
3. To learn about the cultivation techniques of mushroom and production techniques of Biofertilizers.
4. To acquire knowledge about fermentation, brewing and their types.
5. To learn the commercial production of diagnostic kits

BCA

22UBCAC13 : PROGRAMMING IN C

- 1) To understand simple algorithms
- 2) To understand language constructs
- 3) To understand and develop programming skills in C.
- 4) To understand the basic concepts of decision making and looping statements.

To understand the concepts of arrays , structures, union, pointers and files

22UBCAC14 : DIGITAL COMPUTER FUNDAMENTALS

- 1) Develop an understanding of digital circuit design and analysis.
- 2) Learn design techniques for working with digital electronic devices, and their application to solving problems.
- 3) Learn analysis skills to effectively report on the design, analysis and data of projects so that others can understand their methodology and results.
- 4) Become familiar with digital design, analysis and simulation tools.

Develop effective written communication skills using various media tools

22UBCAC15: PROGRAMMING IN C LAB

- 1) Apply the specification of syntax rules for numerical constants and variables, data types.
- 2) Usage of Arithmetic operator, Conditional operator, logical operator and relational operators and other C constructs.
- 3) Write C programs using decision making, branching, looping constructs
- 4) Apply and Write C programs to implement one dimensional and two dimensional arrays
- 5) Writing programs using functions

22UMFOA01: MATHEMATICAL FOUNDATIONS

To learn how to apply fundamental mathematical tools and techniques used in most fields of science and mathematics

22UMAF01: MATHEMATICAL FOUNDATIONS

To know about Logical operators, validity of arguments, set theory and set operations, relations and functions, Binary operations, Binary algebra, Permutations & Combinations, Differentiation, Straight lines, pair of straight lines, Circles, Parabola, Ellipse, Hyperbola.

- I

22UBCAC23: C++ AND DATA STRUCTURES

To learn how to apply fundamental mathematical tools and techniques used in most fields of science and mathematics

1. To Understand the Principles of Object Oriented Programming
2. To understand the concepts of Classes and Objects
3. To Understand the Concepts of Inheritance
4. To Understand the Concepts of Data Structures
5. To Understand in developing C++ programs

22UBCAp24 : C++ & DATA STRUCTURE LAB

22USMAA02 : STATISTICAL METHODS AND THEIR APPLICATIONS

1. To Impart Practical Training in C++ Programming Language

- 1) To know about statistics
- 2) To know about measures of central tendencies and dispersion
- 3) To know about correlation and regression
- 4) To know the concept of probability and distribution

To apply test of significance

1. To understand the basic concepts of instruction and its essentials.
2. To Understand the concept of programmed control.
3. To learn how to implement micro operations & instruction formats..
4. To Explain the Input , output controls .
5. To understand the concept of memory concepts

22UBCAE26-1: COMPUTER ORGANIZATION & ARCHITECTURE

22UBCAE26-2: Computer Graphics

- 1) To understand the basic concepts of drawing algorithms.
- 2) To understand the concept of Attributes & 2D transformations
- 3) To understand clipping concepts & its types.
- 4) To understand the concepts of 3D transformations.

22UBCAE26-3: INTERNET AND ITS APPLICATIONS

To understand the surface detection methods

- 1) Illustrate basic concepts of Internet.
- 2) Understand Apply the necessary of Internet Explorer.
- 3) Analyze, design and implement Email system.
- 4) Demonstrate the Hyper Text Markup languages

22UBCAC33 : JAVA PROGRAMMING

5.To learn the E-marketing & its usage

1. Knowing about a General-purpose and Purely object-oriented programming
 2. language including data types.
 3. To know the control statements
 4. To know the concepts of classes
 5. Secured, well-suited for internet programming using applets
- To understand the concept of GUI-based techniques

22UBCAP34 – JAVA PROGRAMMING LAB

1. Illustrate basic concepts of Java programming.
2. Understand Apply the necessary operations and classes in the required fields.
3. Analyze, design and implement the inheritance concepts using OOP concepts.
4. Demonstrate the simple file operations and data manipulation techniques.

To Know the Packages using Java classes

22UCOMA19: FINANCIAL ACCOUNTING - I

1. To understand the basic Principles and practical Applications of Accounting
2. To have practical knowledge in the preparation of Double Entry System
3. To acquire knowledge about Depreciation accounting
4. To gain expertise in preparation of Bank Reconciliation Statement.
5. To draft the Final Accounts as per the Accounting Standards

**INTERNAL ELECTIVE-II 22UBCAE35-1
MANAGEMENT INFORMATION SYSTEM**

1. To understand the basic concepts of Information systems.
2. To Understand the concept of Information system types.
3. To learn how to implement system planning & support
4. To Explain the various types of systems .
5. To understand the concept of maintenance of MIS.

22UBCACE35-2: E-COMMERCE

1. To provide the knowledge about commerce through electronic medium & information system.
2. To understand the concepts of security.
3. To understand the basic knowledge of E- Payments.
4. To understand the concepts of EDI.
- 5.To understand the concepts of Trading relationships

**22UBCAE35-3: DESIGN AND ANALYSIS OF
ALGORITHMS**

1. To understand how the choice of data structures and algorithm.
2. To understand about design methods impacts the performance of programs.
3. To solve problems using algorithm design methods such as the greedy method, divide
4. and conquer.
5. To solve problems using dynamic programming, backtracking and branch and bound.

To solve NP-hard and NP-complete problems

22UBCAS36 : MULTIMEDIA SYSTEMS

1. Illustrate basic Multimedia components and its Tools.
2. Understand Video animation and Apply the necessary of Internet Explorer.
3. Analyze, design the file formats in a presentation.
4. Demonstrate the Color pallet & its usages.
5. To learn the image special effects& its usages

22UBCAN37 : OFFICE AUTOMATION

- 1) To familiarize student with Office Automation and Component of Office Automation.
- 2) To make them comfortable to evaluate, select ,use Office Software appropriate to specific task.
- 3) To make them work on Open Software for Office Automation.
- 4) To develop expertise in Word Processing, Spreadsheet, and Presentation Skills

22UBCAC43 : PYTHON PROGRAMMING	<p>To know the Office automation tools</p> <ol style="list-style-type: none"> 1. Illustrate basic concepts of python programming. 2. Understand Apply the necessary data structures includes list, tuple and dictionary in the required fields and exception handling. 3. Analyze, design and implement the problems using OOP concepts. 4. Demonstrate the simple file operations and data manipulation techniques. <p>Design web site using python GUI</p>
22UBCAC44 :ARTIFICIAL INTELLIGENCE	<ol style="list-style-type: none"> 1. To impart knowledge about Artificial Intelligence. 2. Understood the system Artificial intelligence, Knowledge acquisition and representation, Reasoning, Uncertainty, Search techniques 3. Understood the AI Technologies, Expert systems, Natural networks. 4. To give understanding of the main abstractions and reasoning for intelligent systems. 5. To understand the basic principles of AI in Various applications.
22UBCAP45: PYTHON PROGRAMMING LAB	<ol style="list-style-type: none"> 1. Illustrate basic concepts of python programming. 2. Understand Apply the necessary data structures includes list, tuple and dictionary in the required fields and exception handling. 3. Analyze, design and implement the problems using OOP concepts. 4. Demonstrate the simple file operations and data manipulation techniques. 5. Design web site using python GUI.
22UCOMA20: FINANCIAL ACCOUNTING - II	<ol style="list-style-type: none"> 1. To promote knowledge about calculation of Average Due date. 2. To understand the branch accounts and its types. 3. To have practical knowledge in the preparation departmental accounting. 4. To acquire practical knowledge in Partnership accounts – Admission. 5. To enrich the understanding about Partnership accounts – Retirement and Death of a partner.
22UBCAS46: INTERNET OF THINGS	<p>To learn about the basics of IOT protocols</p> <p>To understand the fundamentals of Internet of Things</p> <p>To build a small low cost embedded system using Raspberry Pi.</p> <p>To apply the concept of Internet of Things in the real world scenario.</p> <p>To understand the real world application concepts</p>
22UBCAN47: WEB TECHNOLOGY	<ol style="list-style-type: none"> 1. To teach the basics involved in publishing content on the World Wide Web. 2. This includes the 'language of the Web' – HTML, the fundamentals of how the Internet and the Web function. 3. To teach a basic understanding of graphic production with a specific stress on creating graphics for the Web. 4. Introduction to more advanced topics such as programming and scripting.

22UBCAC51: RDBMS

- 5.** This will also expose students to the basic tools and applications used in Web publishing
1. Students are able to understand database concepts and ER model.
 2. The students are able to understand the relational data model.
 3. Students are able to know about relational database design concepts.
 4. Knowledge about file structure and organization.
 5. The students are able to write PL/SQL commands to create tables, insert/update/delete data, and query data in a relational DBMS.

22UBCAC52: OPERATING SYSTEM

1. Enable the student to understand the basics of OS, structure and functions of operating systems.
2. The students are able to understand the principles of scheduler, scheduler algorithms and Deadlock.
3. Enable the student to learn various memory management schemes.
4. Enable the student to study File system and Mass Storage Structure.

Knowledge about UNIX system

22UBCAC53: SOFTWARE ENGINEERING

1. Enable the students to learn basic concepts of software process models.
2. Give knowledge about requirements in engineering and estimation.
3. Enables to understand software analysis and design.
4. To impart knowledge on testing and debugging.
5. Enable to understand software quality maintenance.

22UBCAC54: MOBILE COMPUTING

1. Students are able to understand various types of wireless data networks and wireless protocols.
2. To understand basic concepts of mobile telecommunication system.
3. To understand the basics of wireless mobile computing.
4. Knowledge about wireless LAN and cellular systems.

Enable to understand application and transport layers

22UBCAP55: RDBMS LAB

1. Programming skill set to know basic simple queries.
2. Programming skill set to know DDL, DML, DCL commands.
3. Programming skill set to know nested sub queries and join operations.
4. Programming skill set to know built in functions and create view of a table.
5. Programming skill set to know PL/SQL concepts.

22UBCAP56: OPERATING SYSTEM LAB

1. Knowledge pertaining to process system call.
2. Explore knowledge in various scheduling algorithms.
3. Explore knowledge in Semaphores.
4. Impact knowledge in memory management concepts.
5. Explore knowledge in various page replacement and disk scheduling algorithms.

22UBCAE58-1: OBJECT ORIENTED ANALYSIS & DESIGN

1. To learn the basics of object oriented analysis and design skills.
2. Knowledge about the UML and use case modeling.
3. Learn various modeling techniques.
4. Enable to know classes and its functionalities.

To learn about various structural patterns

1. Enable students to understand various Security Concepts.

22UBCAE58-2: CRYPTOGRAPHY

2. To know about various cryptographic operations.
3. Knowledge about public key cryptography.
4. Understand the various Authentication schemes.

To know about security protocols

22UBCAE58-3: NETWORK SECURITY

1. To enable knowledge in basics of network fundamentals.

2. Enable students to understand various Security Concepts.

3. To know about security structure and models.
4. Knowledge about VPN.
5. Understand the various concepts about WAP architecture.

22UBCAS9:DATA COMMUNICATION NETWORKS

1. To equip students to basics of Data Communication and prepare them for better computer networking.

2. Enable to know data link layer and wireless concepts.

3. Knowledge about network layer and its functions.

4. Impact knowledge about transport layer and USD.

5. To learn about application layer.

22UBCAC61 : PHP PROGRAMMING

1. To understand the basic concepts of PHP and its essentials.

2. Understand how to create functions, web pages and how to implement PHP programs.

3. To learn how to implement PHP programs using object oriented programming concepts.

4. Explain Files, databases, session, cookies and File transfer Protocols.

5. Helps in implementing some features of AJAX in PHP programming.

22UBCAC62 : ASP.NET

1. To understand the basic concepts of .NET framework and its controls.

2. Understand how to form and how to implement validation control in .NET programs.

3. To learn how to implement ADO .NET programs using Database Connections.

4. Explain databases, Grid controls using the web forms.

5. Helps in implementing some features of XML in Application programming.

22UBCAC63 : CLOUD COMPUTING

1. To understand the basic concepts of cloud and its storage.

2. Understand the types of cloud and its services

3. To learn how to implement cloud architecture using cloud commUNITY.

4. Explain the concepts of Map Reduce and Hadoop and its architecture.

5. Helps in implementing some features of security of cloud and its applications.

22UBCAC64 : DATA MINING

1. To understand about the basics of Data Mining and Data.
2. To understand about the methods of Data Warehousing
3. To understand about the techniques of Data Mining.
4. To understand about the importance of Cluster and outlier detection
5. To improve the student's knowledge with recent trends and tools

22UBCAP65 : PHP PROGRAMMING LAB

1. Write a program to find the factorial of a number.
2. Write a program using Conditional Statements.
3. Write a program to find the maximum value in a given multi dimensional array.
4. Write a program to find the GCD of two numbers using user-defined functions.
5. Design a simple web page to generate multiplication table for a given number.
6. Design a web page that should compute one's age on a given date.
7. Write a program to download a file from the server.
8. Write a program to store the current date and time in a COOKIE and display the 'Last Visited' date and time on the web page.
9. Write a program to store page views count in SESSION, to increment the count on each refresh and to show the count on web page.
10. Write a program to draw the human face.
11. Write a program to design a simple calculator.

Design an authentication web page in PHP with MySQL to check username and password.

To Impart Practical Training in ASP .NET programs

22UBCAP66 : ASP.NET Lab

22UBCAE68-1: DIGITAL IMAGE PROCESSING

1. To know the basics of Digital image and techniques.
2. To understand various Image enhancement ideas
3. To understand Image restoration techniques.
4. To understand degrees of image resolution and compression methods
5. To understand the concepts of image representation and recognition.

22UBCAE68-2: INFORMATION SECURITY

1. To understand the basic concepts of Information Security.
2. To understand the legal, ethical and professional issues in Information Security
3. To know about risk management
4. To understand the technological aspect of information security.
5. To understand the concepts of cryptography and hacking methods.

22UBCAE68-3: SOFTWARE PROJECT MANAGEMENT

1. To understand the basic concepts of project and its development.
2. To understand the models and planning of project management.
3. To know about tasks and activities for project.
4. To understand the technological aspect of project management.
5. To understand the concepts of Quality assurance and configurations.

22UBCAS69: BIG DATA ANALYTICS

1. To explore the fundamental concepts of big data analytics
2. To learn to use various techniques for mining data stream.
3. To learn the Big data Business Perspective
4. To understand the applications using Map Reduce Concepts
5. To introduce programming tools HIVE in Hadoop echo system

B. Sc. Computer Science

22UCSCC13: FUNDAMENTALS OF COMPUTERS

- 1) An understanding of basic concepts of computer science.
- 2) An introduction to the fundamentals of hardware, software and programming.
- 3) To understand the concept of Number System.
- 4) To know the types of memory for storage purpose.

To understand the types of input devices to feed the data for action

22UCSCC14: PROGRAMMING IN C

- 1) To Provide complete knowledge of C language
- 2) Students will be able to develop logics which will help them to create programs, applications in C
- 3) By learning the basic programming constructs they can easily switch over to any other language in future.
- 4) To understand the concept of function types
To acquire knowledge about pointers

22UCSCP15: PROGRAMMING IN C LAB

- 1) To Develop Programs In C Using Basic Constructs.
- 2) Familiarize The Different Control And Decision Making Statements In "C"
- 3) Build Programs Using Arrays And Strings.
- 4) Provide Knowledge On Working With Files And Functions.

To Understand The Concepts Of Structures

To acquire knowledge on finding roots of the Transcendental and Algebraic equations by Numerical methods, applications of matrices and Numerical methods for solving Simultaneous Linear equations. To understand the Computations of Eigen values, Eigen vectors, differential calculus, the evaluation of double and Triple integrals for finding Area and Volume

22UMATA01: MATHEMATICS – I

To know about Logical operators, validity of arguments, set theory and set operations, relations and functions, Binary operations, Binary algebra, Permutations & Combinations, Differentiation, Straight lines, pair of straight lines, Circles, Parabola, Ellipse, Hyperbola.

22UMAF01: MATHEMATICAL FOUNDATIONS – I

To learn how to apply fundamental mathematical tools and techniques used in most fields of science and mathematics

22UCSCC23: PROGRAMMING WITH C++

1. Object Oriented concepts, C++ language features.
2. Classes, Objects, Inheritance, and Polymorphism.
Functions, Constructors, Streams and Files

22UCSCP24: PROGRAMMING WITH C++ LAB

The objectives of the course are to have students :

1) Identify and practice the object-oriented programming concepts and techniques, Practice the use of C++ classes and class libraries, arrays, vectors, inheritance and file I/O stream concepts

To expand trigonometric functions, solving partial differential equations and learn about vector differentiation and integration, also too familiar with physical interpretation of divergence and curl of a vector. Learning Finite differences and applications of Interpolations in real life situations.

22UMATA02: MATHEMATICS – II

To know about Operations on Matrices, types of Matrices, Rank of matrix, Inverse of Matrix, Methods to solve Simultaneous Linear equations, Test for consistency, Matrix of linear transformations, Characteristic roots and vectors, Types of Integration with applications to Area and Volume, Analytical Geometry 3D Planes and Straight Lines.

22UMAF02: MATHEMATICAL FOUNDATIONS – II

22UCSCE26-1: DIGITAL LOGIC FUNDAMENTALS

22UCSCE26-2: FUNDAMENTALS OF ALGORITHMS

To Understand the basic concepts of Digital Circuits and Logic design of Computers

1) To know how to analyze the performance of algorithms.

2) To understand how the choice of data structures and algorithm design methods impacts the performance of programs.

To solve problems using algorithm design methods such as the greedy method, divide and conquer, dynamic programming, and backtracking

1) To understand the relationship between system software and machine architecture.

2) To know the design and implementation of assemblers

3) To know the design and implementation of linkers and loaders.

4) To have an understanding of macroprocessors.

To have an understanding of system software tools

1. Understand fundamentals of programming such as variables, conditional and iterative execution, methods, etc.

22UCSCE26-3: SYSTEM SOFTWARE

2. Understand fundamentals of object-oriented programming in Java, including defining classes, invoking methods, using class libraries, etc.

3. Be aware of the important topics and principles of software development.

4. Have the ability to write a computer program to solve specified problems.

Be able to use the Java SDK environment to create, debug and run simple Java programs

1. The main objective of JAVA Programming Lab is to provide the students a strong foundation on programming concepts and its applications through hands-on training.

2. To practice the Object, Class, inheritance and recursion concepts in Java programming.

3. To implement and gain knowledge in packages, interfaces, exception and thread handling.

4. To write programs to implement graphics, applets and event handling.

To implement AWT classes and windows fundamentals

22UCSC33 : PROGRAMMING IN JAVA

22UCSCP34: PROGRAMMING IN JAVA LAB

22UCSCE36-1: ELECTRONIC COMMERCE

1. Discuss fundamentals of e-commerce, types and applications.
2. Evaluate the role of the major types of information systems in a business environment and their relationship to each other
3. Assess the impact of the Internet and Internet technology on business electronic commerce and electronic business
4. Identify the major management challenges for building and using information systems and learn how to find appropriate solutions to those challenges.

Learn strategies for e-commerce, Mobile Commerce, Wireless Application Protocol, WAP technology and Mobile Information devices

22UCSCE36-2 : COMPUTER GRAPHICS

1. To understand the fundamentals about Computer Graphics.
2. To familiar with Scanners and I/O devices.

To be exposed to 2D and 3D Transformations and clipping

22UCSCE36-3 : WEB SERVICES

1. To Understand Web Services and implementation model for SOA
2. To Understand the SOA, its Principles and Benefits
3. To Understand XML concepts
4. To Understand paradigms needed for testing Web Services
5. To explore different Test Strategies for SOA-based applications

22UPHYA01: PHYSICS - I

1. To understand the concept of elasticity and strength of solid materials, viscous properties of liquids and surface tension.
2. To acquire knowledge on centre of gravity, state of equilibrium and stability of floating.
3. To study the heat capacity, conduction, convection, and radiation
4. To understand conversion of heat into mechanical work.
5. To know the phenomena of light such as interference, diffraction, polarization, and their applications

To understand and computing statistical Methods by which to develop the programming Skills

22USTAA01: STATISTICS-I

22UCSCS38 : FUNDAMENTALS OF DATA STRUCTURES

1. Understand the basic concept of algorithms.
 2. To introduce the various data structures and their implementations.
 3. Evaluate the performance of various sorting algorithms.
 4. Understanding the stack and queues
- Evaluate the trees and sorting methods

22UCSCC43 : PYTHON PROGRAMMING

1. Describe the core syntax and semantics of Python programming language.
1. Discover the need for working with the strings and functions.
2. Illustrate the process of structuring the data using lists, dictionaries, tuples and sets.
3. Understand the usage of Files and Graphics.
4. Understand the usage of sets and Dictionaries, Recursive Functions.

22UCSCP44 : PYTHON PROGRAMMING LAB

1. To implement the python programming features in practical applications.

	<ul style="list-style-type: none"> 2. To write, test, and debug simple Python programs. 3. To implement Python programs with conditionals and loops. 4. Use functions for structuring Python programs. 5. Represent compound data using Python lists, tuples, sets, dictionaries, turtles, Files and modules.
22UPHYA02: PHYSICS II	<ul style="list-style-type: none"> 1. To understand the concept and laws of electrostatics, working of capacitors. 2. To acquire knowledge on current electricity, electromagnetic induction and resonance circuits. 3. To understand the atom models, X-rays and nuclear properties and reactions. 4. To study fundamentals of solid-state electronics diodes and transistors. <p>To know the number system, logic gates and basic digital circuits</p>
22UPHYP01: PHYSICS PRACTICAL – I	<ul style="list-style-type: none"> 1. To know the method of determining elastic properties of solids 2. To learn the experimental method to determine surface tension and viscous properties of liquids 3. To acquire knowledge of measurement of optical properties of solid 4. To acquire knowledge to measure the size of very small objects. 5. To gain knowledge of finding thermal properties of liquids <p>To obtain the electrical properties of a conductor and to perform experiments to study the semiconductor devices and digital circuits</p>
22USTAA02: STATISTICS-II	<p>To understand and computing statistical Methods by which to develop the programming Skills.</p>
22UCSCS48: SOFTWARE ENGINEERING	<ul style="list-style-type: none"> 1. To introduce the software development life cycle models. 2. To introduce concepts related to Requirements engineering, modelling. 3. To provide an insight into design engineering. 4. To understand user interface design and quality assurance. <p>To know the testing strategies</p>
22UCSCC51 : DATA COMMUNICATION NETWORKS	<ul style="list-style-type: none"> 1. To learn the Network concepts in Computers and its methods to communicate the data. 2. To Study the OSI Model and practice the layers 3. To Understand the importance of Physical Layers and Media. 4. To Study the Guided and Unguided media with concepts of Switching. <p>To learn the Error detection & Correction Codes and solve the problems</p>
22UCSCC52 : COMPUTER SYSTEM ARCHITECTURE	<ul style="list-style-type: none"> 1. To learn functions of digital circuits and data representation. 2. To understand basic computer, memory organization and design. <p>To gain knowledge on CPU, Memory, Pipeline, Vector and Multi-Processors</p>

22UCSCC53 : WEB TECHNOLOGY

1. To understand the fundamental concepts and role of Web Technology.
2. To learn the Process of CSS.
3. To understand the web pages.
4. To gain insight on script objects.
To Know Java Script libraries

22UCSCC54 : RELATIONAL DATABASE MANAGEMENT SYSTEM

1. Gain a good understanding of the architecture and functioning of Database Management Systems as well as associated tools and techniques.
2. Understand and apply the principles of data modelling using Entity Relationship and develop a good database design.
3. Understand the use of Structured Query Language (SQL) and its syntax.
4. Apply Normalization techniques to normalize a database.
Understand the need of transaction processing and learn techniques for controlling the consequences of concurrent data access

22UCSCP55 : WEB TECHNOLOGY LAB

1. To impart Practical Training in Control panel tools.
2. Familiarize with HTML Tags.
3. Build programs using Java script.
4. Provide knowledge on working with events and methods

22UCSCP56: RELATIONAL DATABASE MANAGEMENT SYSTEM LAB

1. To have a glimpse on the basic sql operations.
2. To develop various sql queries.
3. To understand the aggregate operations.
4. To have competence in joins.
To have knowledge about views

22UCSCE58-1 : DATA MINING AND WAREHOUSING

1. To introduce data mining principles and techniques.
2. To introduce the concepts of Data Warehousing, difference between database and data warehousing.
3. To describe and demonstrate basic data mining algorithms, methods, tools,
To describe ETL Model and the Star Schema to design a Data Warehouse

22UCSCE58-2: SOFTWARE PROJECT MANAGEMENT

1. Define and highlight importance of software project management.
2. Describe the software project management activities.
3. Train software project managers and other individuals involved in software project.
4. To ensure the concepts on Planning and tracking.

Oversight in the implementation of the software project management process

22UCSCE58-3 : MICROPROCESSOR AND ITS APPLICATIONS

1. To acquire skill about the microprocessors evaluation.
2. To understand the 8085 instructions set.
3. To know about complements.
4. To understand the types of convertors.

To utilize the microprocessor in various applications

22UCSCS59: MULTIMEDIA AND ITS APPLICATIONS

1. To understand the standards available for different audio, video and text applications.
2. To learn various multimedia authoring systems in multimedia production team.

3. To learn the concepts of multimedia like text, speech, image and video processing in today's standards.
4. To have exposure to multimedia animation.

To gain knowledge on designing a multimedia project

22UCSCC61 : OPERATING SYSTEM

1. To understand the fundamental concepts and role of Operating System.
2. To learn the Process Management and Scheduling Algorithms
3. To understand the Memory Management policies
4. To gain insight on I/O and File management techniques

22UCSCC62 : DOTNET PROGRAMMING

1. To enable students to learn IDE of Microsoft visual studio .Net
2. To understand the functioning of various controls
3. To gain skills on Graphical User Interface Controls and Databases
4. To Learn data access mechanism provided .net.

To Create a web application using .net

22UCSCC63 : IOT AND ITS APPLICATIONS

1. To learn the concepts of IoT and its protocols.
2. To learn how to analysis the data in IoT.
3. To develop IoT infrastructure for popular applications.
4. To introduce the Python Scripting Language which is used in many IoT devices

To report about the IoT privacy, security and vulnerabilities solution

22UCSCC64 : MOBILE COMPUTING

1. To understand the fundamental concepts and role of mobile computing.
2. To learn the Media Access control and Telecommunication system.
3. To understand the basic concepts of satellite and broadcasting systems.
4. To gain knowledge about wireless LAN.
5. To learn functionality of network and transport layer in mobile computing.

22UCSCP65 : LINUX OPERATING SYSTEM LAB

1. To learn Process management and scheduling.
2. To understand the concepts and implementation of memory management policies.
3. To understand the various issues in Inter Process Communication.

22UCSCP66: DOTNET PROGRAMMING LAB

1. To learn about basic features of ASP.NET and its controls.
2. To create an ASP.NET application using standard .NET Controls.
3. To gain knowledge about E-Mail registration.
4. To implement SQL connection.
5. To get skill about controls in ASP.NET

22UCSCE68-1: NETWORK SECURITY

1. To learn the network security concepts: vulnerability, threat and attack
2. To understand symmetric and asymmetric encryption processes.
3. To learn about the various issues and treats of network security
4. Able to design security model to prevent, detect and recover from the attacks.

22UCSCE68-2: OOAD AND UML

1. The main objective is the students become familiar with all phases of OOAD.
2. Master the main features of the UML.
3. Master the main concepts of Object Technologies and how to apply them at work and
4. develop the ability to analyze and solve challenging problem in various domains.

Learn the Object design Principles and understand how to apply them towards implementation.

22UCSCE68-3: CLOUD COMPUTING

1. To understand the fundamental concepts and role of cloud computing.
2. To learn the Media Types and working method of cloud computing.
3. To understand the concepts of cloud computing architecture.
4. To gain knowledge about virtualization in cloud computing.
5. To learn storage, security and different applications such as Microsoft, Google and Amazon.

22UCSCS69: ANDROID PROGRAMMING

1. To develop competence and confidence in android programming.
1. To understand the entire Android Apps Development through Eclipse.
2. To learn about android framework
3. To understand the data storage, multimedia, location and mapping and sensor.
4. To enable the students to independently create Android Applications.

22UCSCN37: FUNDAMENTALS OF INFORMATION TECHNOLOGY

1. To introduce IT in a simple language to all undergraduate students, regardless of their specialization.
2. Help them to pursue specialized programs leading to technical and professional careers.
3. Enhances certifications in the IT industry.
4. Introducing skills relating to IT basics, computer applications, programming.

A glimpse on various types of software

22UCSCN47: INTERNET TECHNOLOGY

1. Fundamentals of Internet, Connectivity and its Resource Requirements.
2. To understand the Internet Technology and its applications
3. To Understand WWW and Web Browsers.
4. Mailing system and applications of Internet.
5. To Understand relay chat

**B. Sc. Visual
Communication**

22UVSCC-13: INTRODUCTION TO VISUAL COMMUNICATION

- 1) To understand the functions and nature of the various types of communication.
- 2) To give a basic understanding with regard to various communication models.
- 3) To orient the students on the emergence of new media and the evolving trends in digital media.
- 4) To understand knowledge about the perceptions, illusion and colour theory.

To collect the knowledge of importance in speech styles and presentation

22UVSCC14: BASIC DRAWING- PRACTICAL

- 1) To introduce students to the basics of Drawing.
- 2) To teach the knowledge of elements of Drawing.

	<p>3) To Teach important of the Drawing and Deign.</p> <p>4) To develop the knowledge and skills of Creativity, Drawing and Design.</p> <p>To improve the contemporary field needs and design solution</p>
22UVSCA01: MEDIA CULTURE AND SOCIETY	<p>1) To understand the basic concepts of media and communication.</p> <p>2) To gain knowledge about the media influence.</p> <p>3) To have complete knowledge about theories in media.</p> <p>4) To know the media performance and content from a gender perspective.</p> <p>To get an awareness about the culture transformation</p>
22UVSCP01: 2D DESIGNING – PRACTICAL	<p>1) To introduce students to the basics of line draws and alphabet writing.</p> <p>2) To teach the knowledge of elements of Drawing.</p> <p>3) To teach important of the Drawing and Deign for Newspaper.</p> <p>4) To develop the knowledge and skills of Creativity, Drawing and logo Design.</p> <p>To improve the print field needs and design solution</p>
22UENV5 18: ENVIRONMENTAL STUDIES	<p>1) To gain knowledge about the importance of environmental sciences and natural resources.</p> <p>2) To learn the concept, structure and function of ecosystem and the importance of biodiversity.</p> <p>3) To understand and gain knowledge about environmental pollution and management.</p> <p>4) To impart knowledge about social issues and human population.</p> <p>To acquire the skills for identifying and solving pollution problem</p>
22UVSCC-23 ADVERTISING BASICS	<p>1) To give the elements, functions and fundamentals of Advertising</p> <p>2) To give them the basic knowledge required about Advertising.</p> <p>3) To teach the knowledge of Branding and Target audience.</p> <p>4) To help them to create Advertisements ethically&Ad Agencies.</p> <p>To give them the required inputs to analyze and evaluate the Ad content</p>
22UVSCP24: ADVERTISING TECHNIQUES - PRACTICAL	<p>1) To make students understand the basics and uses of layouts drawings.</p> <p>2) To teach the knowledge to Designing Software.</p> <p>3) To help students use these drawing concepts in designing.</p> <p>4) To develop the knowledge and skills of Creativity, Drawing and Design.</p> <p>To improve the contemporary field needs and design solution</p>
22UVSCP02: GRAPHIC DESIGN – PRACTICAL	<p>1) To study the various kind of Theme for logo.</p> <p>1) To teach the Print Media (Newspaper, Magazine, Brochure and outdoor banners) Styles and Importance.</p> <p>2) To teach the knowledge of Color Theories and its importance.</p> <p>3) To acquire knowledge of package designing.</p> <p>To study the concept of recent technology in designing</p>

<p>22UVSCE26-1: GRAPHIC DESIGN</p>	<ol style="list-style-type: none"> 1) To give the elements, functions and Principles of design 2) To give them the basic knowledge required about thinking and presentation 3) To teach the knowledge of typography and its uses 4) To help them to create Advertisements using composition 5) To give them the required inputs of responsibilities.
<p>22UVSCE26-2: PRINTING PROCESS</p>	<ol style="list-style-type: none"> 1) To give the basic of printing process and its types. 2) To give them the basic knowledge required about structure of Press. 3) To teach the knowledge of Publication, Layout design. 4) To study the knowledge of Nature and Elements in News paper design. <p>To give them the technological development in printing</p>
<p>22UVSCE26-3: COMMUNICATION SKILLS</p>	<ol style="list-style-type: none"> 1) To study the knowledge of Non verbal communications. 2) To give them the idea of Presentation tools and skills. 3) To help students enhance their communication skills and use non- verbal communication effectively. 4) To teach them how to Manage the Time and Stress. <p>To acquire the knowledge of facing the Interviews</p>
<p>22UVSCC33- WRITING FOR MEDIA</p>	<ol style="list-style-type: none"> 1. Intro to Elements of Writing, Characteristics of media writing 2. To understand the scripting for Print Media. 3. Demonstrate the form of writing for various programmes on TV and radio. Learning and applying correct script form. 4. To develop the skill for their own writing for New Media. 5. Knowledge of the opportunities particular to film
<p>22UVSCE33- MEDIA LAWS AND ETHICS</p>	<ol style="list-style-type: none"> 1. To understand the basic knowledge of the Indian constitution. 2. To gain various laws related to media in India. 3. To throw light on press commission and committees. 4. To educate the students on the ethics and codes to be possessed by media professionals. 5. To provide knowledge on media ethics and ethical problems in India
<p>22UVSCE33- SCRIPT WRITING - PRACTICAL</p>	<ol style="list-style-type: none"> 1. To understand the knowledge of print media writing 2. To acquire knowledge of script writing for Radio Program 3. To acquire knowledge of script writing for Radio Advertisement 4. To teach how to writing script for Television programs and Advertisement. 5. To provide a complete knowledge of write Script for Short film and Documentary films
<p>22UVSCE36-1: WEB DESIGNING</p>	<ol style="list-style-type: none"> 1. To understand the basics of web designing and its tools. 2. To practice the HTML coding for creating websites 3. To learn the internet applications and its cross platform features. 4. To understand the linkages and frames in between the webpage 5. To learn the knowledge of creating website

22UVSCE36-2: ADVERTISING PHOTOGRAPHY

1. To introduce students to the basics of advertising photography.
2. To inculcate the knowledge of Fashion & Modelling Photography.
3. To acquaint them with important still photography.
4. To develop the knowledge of Nature and Wildlife Photography.
5. To learn about the social advertising photography

22UVSCE36-3: CAMPAIGN

1. Campaign begins to work when the general public becomes aware of a product's existence.
2. Campaign then aims to develop customer interest, so that potential customers want to know more about the product.
3. This should be followed by potential customers feeling a need to own the product and finally purchasing.
4. To learn the role played by PR in campaign
5. To practice a Campaign for Awareness

22UVSCN37: BASICS OF PHOTOGRAPHY (NMEC - I)

1. To understand the basic concepts of photography.
2. To gain knowledge about the functions of camera
3. To have complete knowledge on Camera lenses
4. To know the media performance on Photography
5. To get an awareness about the product photography

22UVSCS38: JOURNALISM

1. To introduce students to the basics of journalism.
2. To inculcate the knowledge of news writing in journalism.
3. To acquaint them with important aspects of electronic Journalism.
4. To develop the knowledge of journalism in emerging technologies.
5. To enhance practicing journalism

22UVSCC43: PHOTOGRAPHY

1. To apprise the students regarding the basics of photography with parts and functions of camera
2. To understand regarding the types of Cameras, Lenses and Filters.
3. To learn the knowledge of various types of storage device.
4. To demonstrate the theoretical knowledge of lighting techniques.
5. To acquire knowledge of branches of photography and its scopes

22UVSCP44: PHOTOGRAPHY – PRACTICAL

1. To apprise the students regarding the basics of photography with components of camera
2. To demonstrate the knowledge of lighting techniques in Outdoor.
3. To practice the lighting techniques in indoor photography.
4. To learn the knowledge of Special effects.
5. To acquire knowledge of outdoor photography and its scopes

22UVSCP04: AUDIO PRODUCTION – PRACTICAL

- To introduce students to the audio production and different audio formats.
2. To inculcate the knowledge of audio equipment's.
 3. To acquaint them art of audiography
 4. To develop the knowledge of Radio fill-in programme.
 5. To learn about the voice modulation.

22UVSCN46: MOBILE JOURNALISM

1. To learn the basics of Journalism
2. To understand the knowledge of Mobile Journalism
3. To acquire the Knowledge of reporting using mobile.
4. To study the techniques in writing for new media reporting
5. To develop the acquire knowledge regarding the recent trends

22UVSCS47: MEDIA PRESENTATION SKILLS

- To study the basic tools for media presentation skill
To learn the Importance of various types of Preparation.

22UVSCC51: FILM STUDIES

To practice the preparing Portfolio
To induce the importance of Speaking Skills and language.
To learn how to develop the presentation

1. To learn about the history of Indian cinema
2. To acquire knowledge about Film Studies
3. To strengthen the knowledge on concept, model and theories of Film Studies
4. To develop content using the features in Film Studies
5. To enhance understanding of production phases

22UVSCC52: MASS COMMUNICATION THEORIES

1. To learn about the basics of mass communication.
2. To study about the various models related to mass communication
3. To understand the various theories related to mass communication.
4. To teach some research methodologies and Types of Research

To strengthen the knowledge of Sampling, presenting research, survey readership, audience and Consumers

22UVSCC53: TELEVISION PRODUCTION – PRACTICAL

1. To introduce the News reading as video production.
2. To inculcate the knowledge of field research as Live reporting, live show anchoring
3. To acquaint them with important script writing for TV Programmes
4. To develop the knowledge of technological advancement in recording instruments
5. To learn about the advertisement

22UVSCP55: DOCUMENTARY PRODUCTION – PRACTICAL

1. To practice the principle modes of documentary making.
2. To learn how to write a script for it.
3. To understand the documentary with social and historical context
4. To study about the documentary ethics and aesthetics.
5. To produce own documentary film

22UVSCE56-1: INDIAN ART AND AESTHETICS

1. To acquire knowledge of the art and aesthetics
2. To appreciate the art forms of styles in India.
3. To understanding the knowledge of Sculptures & Paintings.
4. To learn the North and south Indian miniatures.
5. To study the knowledge of social responsibility of Art

22UVSCE56-2: PRE-PRODUCTION PROCESS

1. To understand the basic concepts of visualization.
2. To gain knowledge about the scripts and its types
3. To have complete knowledge about storyboarding
4. To know the media budgeting for whole production

To learn the assembling crews and various department in film making

22UVSCE56-3: NEWS REPORTING

1. To introduce and make students learn the different patterns of writing.
2. To help them create content for different category of readers.
3. To teach effective writing techniques.
4. To understanding the writing for special groups
5. To study how to write the leads and headlines

22UVSCS58: NEW MEDIA

1. To make students understand the evolution of new media.
2. To understand the advantages, challenges and impact of globalization.
3. To know about influences of social media and communication technology.
4. To understand how new media shape communications and ways to connect with the society.
5. To study the emerging trends and new tools in online communication

22UVSCC61: MULTIMEDIA APPLICATIONS IN MEDIA INDUSTRY

1. To learn the basic concepts of Multimedia Systems
2. To learn representations, perceptions and applications of Audio
3. To study the fundamentals of text and graphic in multimedia
4. To know about the influence of Animation in multimedia

22UVSCC62: E-CONTENT WRITING

5. To develop the knowledge of Multimedia projects
- To study the basics elements of E Content
To learn the various characteristics of E Content
To acquire the knowledge on different forms of E Content
To understand the Essential types in E Content
To know how to creatively write for New Media

22UVSCC63: VISUAL ANALYSIS TOOLS

1. To learn the new computational and theory-based tools
 2. To get a knowledge of innovative interactive techniques and visual representations.
 3. To study Analysis of film and television
 4. To understand the content analysis
- The design of the tools and techniques is based on cognitive, design, and perceptual principles

22UVSCC64: ANIMATION

1. To acquire knowledge about basics of animation
2. To strengthen the knowledge on functions of animation
3. To develop content using the 2d character
4. To learn the content of principles of animation
5. To study how to design 2d animation

22UVSCP65: SHORT FILM PRODUCTION – PRACTICAL

- To go through all Three Developmental Stage of Film Making.
- To give a simulating Live Project like Experience.
- To inculcate Team Building Capabilities to the students.
- To prepare the individual for Film Industry.

22UVSCE66-1: EVENT MANAGEMENT

- To gain professional World Experience
1. To acquire knowledge about Event Management
 2. To strengthen the knowledge on concept, model and theories of Event Management
 3. To develop content using the features in Event management
 4. To learn the content of event safety
 5. To study how to manage the accounting of management

22UVSCE66-2: DISTRIBUTION AND EXHIBITION

1. To study the selection of media for distribution
 2. To learn the various characteristics of distribution
 3. To acquire the knowledge on finishing operation of print
 4. To understand the knowledge of art exhibition
- To teach the news publishing in print media

22UVSCE66-3: EDITING AND ETHICS

1. To understand the theoretical knowledge of video editing
2. To acquire knowledge of Digital editing steps
3. To learn knowledge of types of editing styles
4. To teach how to post production works are done
5. To study the code and ethics to do in editing

22UVSCS68: PUBLIC RELATIONS

1. To Study the essence of PR as a practical discipline within the organization
 2. To learn how public relations is practiced with other PR tools.
 3. To acquire knowledge of different types of stakeholders involved in private and public organizations that use public relations strategies.
 4. To learn public relations profession and practice in a global world.
- To identify, analyse, and discuss PR research techniques

PSYCHOLOGY

22UPSYC13: GENERAL PSYCHOLOGY I	<ol style="list-style-type: none">1. The definition, approaches, careers and methods of Psychology2. The structure and functions of brain and nervous system3. The structure and functions of the sense organs4. The processes of perception and consciousness5. The concept of consciousness, sleep and dreams
22UPSYC14: LIFESPAN PSYCHOLOGY I	<ol style="list-style-type: none">1. different approaches and various methods in human development2. various stages of human development3. principles and patterns of physical, intellectual, social and personality development in early childhood4. principles and pattern of physical, intellectual, social and personality development in middle childhoodprinciples and pattern of physical, intellectual, social and personality development in adolescence <p>LO1: The nature and scope of medical sociology LO2: The relationship between health and social environment LO3: To know the medical social services in hospital LO4: The role of health professionals in health care providing systems</p>
22UPSYA15: MEDICAL SOCIOLOGY	
22UENV5 18: ENVIRONMENTAL STUDIES	<ol style="list-style-type: none">1) To gain knowledge about the importance of environmental sciences and natural resources.2) To learn the concept, structure and function of ecosystem and the importance of biodiversity.3) To understand and gain knowledge about environmental pollution and management.4) To impart knowledge about social issues and human population. <p>To acquire the skills for identifying and solving pollution problem</p>
22UPSYC23: GENERAL PSYCHOLOGY II	<ol style="list-style-type: none">1. The types of motives and emotions2. The different types of Learning3. Various types of memory and forgetting4. The meaning of intelligence5. The various personality theories and assessments
22UPSYC24: LIFESPAN PSYCHOLOGY II	<ol style="list-style-type: none">1. The physical and psychosocial development in young adulthood2. The principles and patterns of physical, intellectual, social and personality development in the middle adulthood.3. The psychosocial development of middle adulthood4. The principles and patterns of physical, intellectual, social and personality development in late adulthood5. The psychological issues and purpose of life and death
22UPSYC25: THEORIES OF COUNSELING	<ol style="list-style-type: none">1. The nature and theories of counselling2. The application of Psychoanalytic theory3. The application of theories (Adler and Erick Bern) in counselling4. The application of theories of Rogers and Skinner in counselling5. The rational and emotive approaches to counselling <p>LO1: The meaning and approaches of Bio Psychology LO2: The Neurophysiology LO3: The chemical basis of behaviour LO4: The concept of emotions</p>
22UPSYA02 : BIOPSYCHOLOGY – I	
22UPSYE26-1: INTRODUCTION TO COUNSELING	<ol style="list-style-type: none">1) The nature and theories of counseling2) The application of Psychoanalytic theory3) The application of theories (Adler and Erick Bern) in counseling4) The application of theories of Rogers and Skinner in counseling5) The rational and emotive approaches to counseling

22UPSYE26-2: HEALTH PSYCHOLOGY

- 1) The meaning of health psychology
- 2) Sources and coping mechanism of stress
- 3) AIDS and heart problems
- 4) Pain and related illness
- 5) Intervention strategies and research techniques

LO1: The history, methods and paradigms of Cognitive Psychology

LO2: The anatomy and imaging technique of brain

LO3: The various approaches of perception and attention

LO4: The comprehensive perspective of memory and its different stages

LO5: The formation and categorization of concepts

COGNITIVE PSYCHOLOGY – I

LO1: The general principles of sensory processing

LO2: The motor control and plasticity

LO3: The sexual behaviour

LO4: The concept of homeostasis and other biological functions

LO5: The several kinds of biological perspectives of learning and memory

22UPSYC35 BIOPSYCHOLOGY-II

22UPSYE36-1 GUIDANCE AND COUNSELLING PSYCHOLOGY

a) The meaning of guidance and counselling

b) Approaches to counselling

c) Nature of good psychological test

d) Quality of effective counsellor

e) Special areas in counselling

LO1: The meaning, definition and methods of Rehabilitation Psychology

LO2: The concept of disability and impairment

LO3: The various models of rehabilitation

LO4: The government schemes and policies

22UPSYE36-2 REHABILITATION PSYCHOLOGY

22UPSYN37 STRESS MANAGEMENT

i. The nature and sources of stress

ii. To identify the physiological, psychological and personality factors of stress.

iii. Stress and psycho-somatic illness

iv. Job stress and related factors

Stress coping strategies

LO1: Personality development and theories

LO2: Determinants of personality

LO3: Personality enrichment and assessment

22UPSYS38 PERSONALITY DEVELOPMENT

LO1: The importance of codes in memory

LO2: The structure of language and cognition

LO3: The essentials of thinking, problem solving and decision making;

LO4: The principles of cognitive development regarding Piaget and non- Piaget approaches

LO5: The cross-cultural perspective and cultural cognition

COGNITIVE PSYCHOLOGY – II

a) the nature of criminal behavior

b) the nature and extent of juvenile offending

c) the nature and scope of criminal justice

d) about the restorative justice and its effectiveness in reducing crime

mental disorder and crime

CRIMINAL PSYCHOLOGY

LO1: The principles of Statistics and the types of variables
LO2: The meaning and computation of the measures of central tendency and the measures of variability
LO3: The meaning, computation and interpretation of correlation
LO4: The probability and mathematical distribution statistical estimations and inferences an significance of differences
LO5: The central features and applications of chi- square and analysis of variance

PSYCHOLOGICAL STATISTICS

22UPSYN47 Human Resource Management

a) the concepts and importance of human resource management
b) the theories and techniques of recruitment
c) the need, importance and technique of training
d) the characteristics of manager and the techniques of executive development
e) the process of effective communication

22UPSYS48 CONSUMER BEHAVIOUR

a) The nature of consumerbehavior
b) The factors influencing consumer behaviour
c) The consumer attitude and communication process
d) The consumers in their social and cultural settings
e) The consumer decision making

LO1: The social behaviour and methods of Social Psychology
LO2: The self concept, Influence of groups and culture on the self
LO3: The impression formation and attribution
LO4: The issues on prejudice and discrimination
LO5: The formation and functions of attitude

SOCIAL PSYCHOLOGY – I

LO1: The meaning and historical background of abnormal of behaviour
LO2: The theoretical perspectives of abnormal behavior
LO3: The physical, psychological and social factors of various mental disorders
LO4: The causes and types of anxiety disorders and sexual disorders
LO5: The nature of various personality disorders and sexual treatment

PSYCHOPATHOLOGY – I

LO1: About the western and eastern perspectives on positive psychology
LO2: The classification and measure the human strengths and positive outcomes
LO3: Resilience in every stages of life
LO4: The concept of Positive Psychology in relation to the cultural context
LO5: The process and principles of positive emotional states

POSITIVE PSYCHOLOGY – I

To enable the student to understand
a) the meaning of organizational behavior
b)the influence of individual behavior in organizations
c) the importance of perception, decision making, values, attitudes and job satisfaction in organizations
d) the influence of power and politics in organizations
e) the types of stress and the strategies to manage the stress in workplace

Organizational Behaviour

22UPSYE58-1 THEORIES OF PERSONALITY

LO1: The Freud's psychoanalytic theory
LO2: The social psychological theories
LO3: The significance of field theory
LO4: The concepts of factor theory as well as different learning theories
LO5: The framework of Rogers's humanistic model

22UPSYE58-2 SUBSTANCE USE AND COUNSELLING

LO1: Historical concepts of substance use
LO2: Various kinds and alcohol content
LO3: Natural, synthetic - Routes of administration
LO4: Types of tobacco smoking and smokeless
LO5: Goals of treatment and Treatment settings

22UPSYS59 PSYCHO DIAGNOSTICS

To enable the student to understand LO1: The case history and MSE
LO2: The intelligence assessment test and personality test
LO3: About the development and administration of psychiatric rating scales
LO4: The use of various screening tests
LO5: To identify the substance abuse disorder

SOCIAL PSYCHOLOGY – II 22UPSYC61

LO1: The concept of persuasion and attitude change
LO2: The concept of conformity, compliance and obedience
LO3: The knowledge in group processes
LO4: The interpersonal attraction and close relationships
LO5: About the interpersonal aggression and altruism

PSYCHOPATHOLOGY- II 22UPSYC62

LO1: The nature, treatment strategies of various mood disorders
LO2: The characteristics and types of schizophrenic disorders
LO3: The etiological factors of cognitive impairment
LO4: The physiological and psychological symptoms related to various substance abuse disorders
LO5: The application of various behavioural therapeutic techniques

POSITIVE PSYCHOLOGY – II 22UPSYC63

LO1: The nature, definition and history of Positive Psychology
LO2: The significance of positive cognitive state and its processes
LO3: About various theories of wisdom
LO4: The importance of mindfulness and Prosocial behaviour

22UPSYE66-1 SCHOOL COUNSELLING

LO1: The importance of School Counselling;
LO2: About the professional identity of school counsellors in India
LO3: The various models of School Counselling
LO4: The various areas of School Counselling
LO5: The various causes and management of suicidal thoughts, depression

22UPSYE66-2 FORENSIC PSYCHOLOGY

LO1: The nature, definition and history of Forensic Psychology
LO2: The various legal concepts and political philosophy
LO3: The clinical issues in forensic assessment
LO4: To perform treatment and rehabilitation for high-risk occupations

3. eilKiw rKjhaj;jpd; gpur;ridfisAk; mjd; jPu;TfisAk; mwptjw;Fk; mJ njhlu;ghd rpe;jid Nkk;ghl;bw;Fk; top Vw;gLj;Jjy;.
4. rKjha gbepiy gFg;GfisAk; rpf;fy;fisAk; mwpjy;.
5. ,yf;fpa gilg;ghf;fj;jpd; Gjpa cj;jpfis czu;e;J gilg;ghw;wiw Cf;Ftpj;jy;.

- LO 1. நன்னூ லின் எழுத்தி லக்கணம், ச ன்ஸி லக்கணத்தி ன சிறப்பி யல்புகளகை கற்பித்தல்
- LO 2. த ன்காப்பி ய எழுத்தி யல், ச ன்ஸி யல் பார்வையுடன ஒப்பிட்ட க கற்பித்தல்
- LO 3. பத்தி ன இலக்கண வக யை அறி தல்
- LO 4. புணர்ச்சி யி ன இலக்கணத்தை ம ழ மயை க கற்பித்தல்
- LO 5. கல்வி கற்க ம ழ மயை ப ேன்ற தல ப்புகள் அடங்கி ய பாயி ரவி யல் ம ழ மயை க கற்பித்தல்

22UTAMC14 : நன்னூல்- எழுத்தி காரம் (காண்டிக ணை)

22UTAMA15-1 தமிழக வரலா றம் பண்பாடம் – பகுதி 1

1. தமிழக வரலாற்றை இந்நி ய வரலாற்றி ன பி ன்புத்தி ல இரந்தா கற்பித்தல்
2. தமிழ்ப் பண்பாட்டி ன த ன்மை, த ன்ரச்சி களை வரலாற்று நிலயி ல உணர்த்துதல்
3. சங்க காலத்தி ல தமிழ் றி யி ன் நிலயைப் பற்றி கற்பித்தல்
4. நிலயி ல கற்களைப் பற்றி கற்பித்தல்
5. மன்னர்கள் கால ஆட்சி மா ன்ப் பற்றி உணர்த்துதல்

22UTAMA15-2 தமிழ் இலக்கண வரலா றம்

த ன்ற த ன் டுத்தி ல தமிழ் த ன்றி ய இலக்கண நூல்கள் ன வரலாற்றை மா னவர்களுக்க கற்பித்தல்.

2. ப ன் டுத்தி ல த ரேகை ல கல்நா க ன்ளம் வி ழி பணர்வை ஏற்புத்தல்

22UTAMA15-3 தமிழ் ம றி வரலா றம் (சார்வப் பாடம்)

1. த ன்மை கை காலத்தி ல ரந்தா இக்காலம் வர தை மி ழ ன் ஒலி, வரி வடிவ மாற்றங்களை உணர்த்துதல்.
2. காலநத ேம் தமிழ் இலக்கணக் கற்கள் அட ந்த மாற்றங்களை உணர்த்துதல்.

22UTAMS16 தமிழி ன் சித்த மர்துவம்

22UTAMC23 சிறி லக்கி யங்கள்

- LO 1. தமிழி ன் மரபு மர த்தவ அறி வி ல சிறந்த இர ந்த ளை த இளயை ர க்க உணர்த்து தல்.
- LO 2. மற ந்த க ன் னபி ர க்க ம் சித்த மர த்தவ த்தை மா னவர்கள் அறி ந்த க ன் ள்ச சயெதல்.
- LO 3. இயற்கை சை ர வா ழி யல் ந ே வராமல் வா ழி யல், வந்த ந ே யி லி ர ந்த மிளவம் பல வழி களை க ன் ன ட ள்ளம யை உணர்த்து தல்.
- LO 4. காய், கனி, தளி ர மற்ற ம் மலர்களி ல உள்ள மர த்தவ த்தை ம யை தளி வி த்தல்.
- LO 5. உணவம் வா ழி யல் நல்ல ஶ்று கலா ற கள் ம் ந ே வராமல் காக்க ம் காரண கள் என வி ளங்க ச்சயெதல்.

- fhye;NjhWk; jkpopyf;fpa tsu; ;rpapd; mbg;gilapy; ehaf;fu;fhy jkpo; ,yf;fpa tsu;epiyia mwpjy; Ngupyf;fpathy epiyf;Fk; rpw;wpyf;fpathy epiyf;Fkhd murpay; khw;wq;fis czu;jy; NguuRfspd; cilghLfspy; Kisj;njOe;J rpw;wuRfs; jkpo;nkhop tsu; ;rpf;F ve;epiyapy; Jizepd;wd vd;gij rhd;Wfspd; njsptpj;jy; rKjha tu; ;f kw;Wk; ,dg;gFg;Gg; gbepiy gFg;GfisAk; rpf;fy;fisAk; mwpjy; ,yf;fpa gilg;ghf;fj;jpd; Gjpa tiffisAk; cj;jpfis czu;tpj;jy;.

22UTAMC24 நன்னில - ச ஸெலதி காரம்

நன்னில ஸ் ச ஸெலதி கார அமஸ்பி ஸ் ஸ்டபங்களை
விரிவாக்க கற்பித்தல்
த ஸ்காப்பி ய் ச ஸெலதி காரப் ப ஸ்கூடன் ஒப்பி ட்டு
விளக்கல்

ப ஸ்துவியல் வழி இலக்கணத்தி ஸ் ப ஸ்து நி லயைக்க கற்றல்

பயெரியல் அடிப்படயில் பல்வறே வகயை ஸ் பயெர்களை
கற்பித்தல்

வினயி ஸ் அடிப்படயில் வினயி யல் மூழமயம்
கற்பித்தல்

22UTAMA25-1 தமிழக வரலாற்றி ம் பண்பாட்டி ம் -
பகுதி 2

1. தமிழக வரலாற்றை இநதிய வரலாற்றி ஸ் பி ஸ்லத்தி ல்
இரஸ்து கற்பித்தல்
2. தமிழ்ப் பண்பாட்டி ஸ் த ஸ்மயை, த ஸ்ர்ச்சி களை
வரலாற்று நி லயில் உணர்த்துதல்
3. ம்னர்களி ஸ் கால மூறஸ்பி ஆட்சி மூறயைக்க
கற்பித்தல்
4. அயலரி ஸ் தலயி ஸ் பற்றி உணர்த்துதல்
5. வானி ம் பற்றி மாணவர்கள்க்க உஸ்கஸி த்தல்

தமிழ் மரபி ஸ்னயி ம் பண்பாட்டி ஸ்னயி ம்
இலக்கி ய் ச ஸாறை கள் வழி விவரி த்தல்.
2.வநதர், க ர நி ல ம்னர அரஸர்களி ஸ் ஆட்சி
முறகளை வி ஸ்கக தல்.
3.அயலவரி ஸ் படயை ஸ் ஸ்பால் தமிழ்
பண்பாட்டி ஸ் நி கழ்ந்த மாற்றங்களை
புலப்படி த்த தல். வி ஸ் தலகைக் முந்தயை,
பிந்தயை தமிழக வாழ்வி யல ஸ் ஸ் தர ஸ்ததல்.
4.தமிழக வரலாற்றி ஸ்ன கர த்தி யல ரீதி யில்
அறி மு கம் ஸ்யதல்.
5.தமிழ் பண்பாட்டி ஸ் வளர்ச்சி ப் ப ஸ்க்க களை
அறி யவதைதல்

22UTAMA25-2 தமிழ் நாகரி கம் பண்பாட்டி ம்

❖ இநதிய ம ஸ்ஷி கள் பற்றி யும், அதன்
த ஸ்மகளை பற்றி யும், வகயை ஸ் கள்
கறித்தி ம் மாணவர்களை அறிந்த க க ஸ்ளாஸ
ஸ்யதல்.

❖ தமிழ் வடம ஸ்ஷி இலக்கி யங்களி ஸ் ஸ்ங்க
இலக்கி யம் த ஸ் ஸ் இக்கால இலக்கி யம் வர ஸ்
பரிந்த க க ஸ்ளாஸ ஸ்யதல்.

❖ மலயை ஸ் இலக்கி யங்களி ஸ் வவி ஸ்ங்களை
அறி ய் ச ஸ்யதல்.

❖ கணண்ட இலக்கி யம், ம ஸ்ஷி ,
பட ஸ்பாளர்கள் பற்றி அறி ய் ச ஸ்யதல்.

தலெ ஸ்ங்க இலக்கி யம், பராண இதி காஸ்ங்கள்
கறித்தி ம் தற்கால இலக்கி யம், நாட்டி ப் பற
இலக்கி யம் கறித்தி ம் அறி ய் ச ஸ்யதல்
தன் மன் தஸ்டயை உரி மகை பற்றி மாணவர்களை அறி ய் ச
ஸ்ட்நுதல்

22UTAMS26 மனி த உரி மகை

22UTAMC33 சமய இலக்கி யம்

1) சமய இலக்கி யங்களி ஸ் நி லவும்
ப ஸ்துத்தன்மகளை தளி ஸ் படி த்த தல்

2) சமய இலக்கி யங்களி ஸ் வழி சம தா ய் ச
சிந்தனைகளை உணர்த்துதல்

3) சமயப்பாக்களி ஸ் வழி ஸ்ாததி ர்க்
கர த்தகளை உணர்த்தல்

மய இலக்கி யங்கள் வளி ஸ்படி த்தி ம் வாழ்வி யல்
விழி ய்ங்களி ஸ் தளி தல்

22UTAMC34 யாப்பரஸ்கல்காரிகளை

1. யாப்பரஸ்கல்காரிகளி ஸ் யாப்பி யல் அமஸ்பி
விரிவாக்க கற்பித்தல்
2. த ஸ்காப்பி ய் ச ஸ்யயி ஸ், பாவகளை
யாப்பரஸ்கல்காரிகளி ஸ் ஸ் ஸ் ஒப்பி ட்டு
கற்பித்தல்

22UTAMA35-1 தமிழ் இலக்கிய வரலாறு பகுதி - 1

1. தமிழ் இலக்கியங்களின் பகுப்புகளை வரலாற்றுப் பின்புறத்தில் கற்பித்தல்
2. தமிழ் இலக்கியங்களின் பல்வேறு தன்மைகளை மனம் தளர்ச்சி நம்புகலையும் உணர்த்துதல்
3. இலக்கியங்களில் காப்பியங்களை கற்பித்தல்
4. தமிழ் இலக்கியம் சமய இலக்கியம் பற்றி உணர்த்துதல்
5. உரையாசிரியர்களின் திறனை மாணவர்களுக்காக வளர்த்தல்

1. மத்தமிழில் ஒன்றான தமிழ்ச் சுவையின் ஆழ அகலங்களைக் கற்ற ததெளிவதே கட்டேகம் திறனை வளர்த்துக் கொண்ட இரகசிய மனோவாதத்தை உரவாக்கல்.
2. காலந்தேறும் தமிழ்ச் சுவையின் நிலைபாட்டினை அறிந்த கணவர்.
3. தமிழரின் இசைக்கரங்களின் பயன்பாட்டை அறிவதைத் தெரிந்த கணவர்.
4. இசைக்கலைஞர்களுக்கும் இசையாவளர்களுக்கும் தமிழ்ச் சுவையின் நிலைபேறாக ஆற்றிய பங்கு பணியினை அறிவர்.
5. தமிழ்ச் சுவையின் வேரையும் விழுத்களையும் அறிவர்

22UTAME36 இசைத்தமிழ்

22UTAME36-2: இதழியல்

22UTAME36-3: சித்திர இலக்கியம்

இலக்கியத்தோடு மிக நெருங்கிய தொடர்பு கொண்ட இத்தழியல் தொடர்பான தகவல்களை மாணவர்கள் அறிபும்படி செய்யுதல்

- 1) சுவை சிந்தாந்தக் கொள்கைகளின் அறிமுகம்
- 2) சித்திரங்கள் பற்றிய விளக்கம், சித்திரங்களின் எண்ணிக்கை பற்றி அறிதல்
- 3) சுவை சிந்தாந்தத்தின் மூலப்பொருள் விளக்கம், ஆன்மாவின் நிலைகளை அறிதல்
- 4) சித்திரங்களின் சித்தாந்தம், பாடலுமற்ற பற்றி அறிதல்
- 5) திரமூலரின் சிறப்புகளை அறிதல் தமிழ் இலக்கியம் பயிலும் மாணவர்கள் கண்ணார்ந்த உலகளாவிய கல்விச் சூழலில் எதிர்கொள்ளும் வகையில் கண்ணீர் மறைமுக கண்ணியில் தமிழ் மொழிவாயிலான பயன்பாடுகள் குறித்த அறிவமைணவர்களுக்குக் கற்பித்தல்

22UTAMS37 கண்ணியில் தமிழ்ப்பயன்பாடு

பண்டைய மன்னர் காலத்திலும் ஆட்சிமுறை தொடர்பான காலந்தேறும் ஆட்சிமுறை மாற்றங்களை எடுத்ததற்கு ஆங்கிலேய ஆட்சிமுறை வரையிலான நடப்புகளை அறியச் செய்யுதல்.

ஆட்சித்தமிழ்-I - 22UTAMN 38

2. செய்யுதல், தமிழ் ஆளுமையை பிரகடனப்படுத்திய தமிழ் ஆட்சி மொழி விழிப்புணர்வைப் பெறச் செய்யுதல்..

3. தமிழ் க்கான சங்கங்கள் இயக்கங்கள் வழி தமிழ் க்குத் தகுமிடத்தை ஏற்றிப் பெற விழிப்புணர்வை ஏற்படுத்தல்.

4. ஆட்சி மொழிக்குழுவின் பணிகளை வழி தமிழ்ப்பயிற்சிகளை வழங்கி ஆட்சி மொழி கலைச்சொற்கள் மூலம் அகராதி உரவாக்கங்களை செய்யும் ஆர்வத்தைத் தூண்டல்

தமிழ் இலக்கிய வரலாற்றில் காப்பியப் பின்புலத்தைக் கற்பித்தல்.
> தமிழ்க் காப்பியங்களின் பல்வேறு தன்மைகளையும் தனிச்சிறப்புகளையும் உணர்த்தத் தல்.

> சமணம், பௌத்தம், சிவம், வைணவம், இஸ்லாமியம், கிறித்தவ காப்பியத் தன்மைகளைக் கற்பித்தல்

காப்பிய இலக்கியம் 22UTAMC43

22UTAMC44 ek;gpafg; nghUs(Nambiya Porul)

1. வாழ்வியல் நெறிமுறைகளை வகைப்படுத்தி விவரிக்க வேண்டும்.
வாழ்ந்ததெனக் காலத்திழர்களின் பரமமையைப் பார்ப்பதற்கு.

2. பழந்தமிழரின் அகவாழ்வியல் சமையலை அறியச்செய்தல்.

3. பண்பை இல்லாத காதலால் கடிமம் வாழ்க்கை மலேயேங்கி இரந்த தன்மையை உணர்ச்சியெதல்.
காதலில் எல்லகளைத் தாண்டாத நெறியில் நின்ற அதவேளே காதல் பறிந்தவரையே மணம் செய்குக என்பதில் தீவிரம் காட்டியதன்மை அறியச்செய்தல்

22UTAMA45-1 தமிழ் இலக்கிய வரலாறு - பகுதி 2

> தமிழ் இலக்கியங்களின் பண்புகளை வரலாற்றுப் பின்புலத்தில் கற்பித்தல்

> தமிழ் இலக்கியங்களின் பல்வேறு தன்மைகளையும் தனிச்சிறப்புகளையும்

> உணர்த்தத் தல்

> சிறுநிலக்கியம் பற்றிய

நண்கக்கின்கை கற்பித்தல்

> நாடகம் பற்றி இலக்கணத்தோடு கற்பித்தல்

> தற்கால ஊடகங்கள் பற்றிய அறிவினை உண்டதல்

பழங்காலத்திலேயே தமிழர்கள் கலகைகளில் விருப்பம் கொண்டவர்களாக இரந்தமையை விளக்கவதல்.

2. குத்த ஆட்டம் பண்ணுவற்றி விருந்த மடையாடகம் வளர்ந்ததை அறிவித்தல்.

3. வேந்தர்களுக்கும் பண்புகளும் கருமாசுவேறவே தளத்தில் நாடகம் நடனம் நடத்தப்பட்ட நிலையைத் தெரியப்படுத்தத் தல்.

4. திரைத்திறவை வளர்ச்சிக்கூட நாடகம் தயக்கப்பள்ளியாக இரந்ததை விளக்கத் தல்

நாடகத்தமிழ் - 22UTAME46-1

இந்திய நிரவாகம் - 22UTAME46-2

1) இந்திய நிரவாகம் தல் மயம், மகாணம் மற்றும் சிராம நிரவாகம் வரையறையையும் செய்வித்தல்.

2) சங்ககால ஆட்சிமுறை தெய்வசிவம், பாண்டியர் மற்றும் சேரர்களால் நிரவாகமுறை வரையறுக்கவதல்.

3) இடக்கா இந்திய நிரவாக சிறப்புகளை அறிய செய்வித்தல்.

4) ஆங்கிலேய கால நிரவாகத் தன்மைகளையும் நிரவாக சீர்திருத்த சட்டங்களையும் அறித்தல்

5) சதந்திர இந்தியா வின் நிர்வாகத் தன்மைகளைத் தொங்கி மயை மற்றும் மாநில நிர்வாக முறைமைகளை அறியச் செய்தல்

பதிப்பியல் - 22UTAME46-3

1) மாணவர்களுக்கு தமிழ் மொழியின் முக்கியத்துவத்தைப் பற்றி அறிய வைப்பது.

2) அச்சு பதிப்பு முறைகளைத் தள்ளி வான அறிவினைப் பற்றித் தல.

3) பதிப்பு வரலாற்றின் வழி இலக்கியப் பதிப்பினை அறிந்தகள்ளு தல.
பதிப்பு நெறிகளைப் பற்றித் தல

பண்டைய மன்னர் காலத்த ஆட்சி முறைத் தொங்கி காலந்தேறும் ஆட்சி முறைமாற்றங்களை எடுத்தகற்றி ஆங்கிலேய ஆட்சி முறை வரலாறு என்பகளை அறியச் செய்தல்.

ஆட்சித் தமிழ்-II - 22UTAMN 47

2. செய்தல். தமிழ் ஆள மகளை பிரகடனப்படுத்திய தமிழ் ஆட்சி மொழி விழிப்புணர்வைப் பற்றிச் செய்தல்..

3. தமிழ்க்கான சங்கங்கள் இயக்கங்கள் வழி தமிழ்க்குத் தகமிடத்ததைத் தேறும் பற்றி விழிப்புணர்வை ஏற்படுத்த தல.

4. ஆட்சி மொழிக் கழிவின் பணிகள் வழி தமிழ்ப்பயிற்சிகளை வழங்கி ஆட்சி மொழி கலைச்செய்கள் மற்றும் அகராதி உரவாக்கங்களை செய்யும் ஆர்வத்தைத் துண்டல்

சங்க இலக்கியத்தைத் திணைகள் அடிப்படையில் அறித் தல்

2. சங்க அக இலக்கியங்களை அன்பின் ஐந்திணைகள் அடிப்படையில் அறித் தல்

3. சங்க இலக்கியத்தில் அமந்தைப் பற இலக்கியச் சிறப்பினை உணர்தல்

4. சங்க இலக்கியத்தில் அமந்தை மொழி, பண்பாடு, நாகரிகம், கலையுயவற்றை அறித் தல்

5. சங்கப் பாடல்களில் காதல், வீரம், புகழ், கமொழைப் பற்றி ஆகியவற்றை உணர்த்தல்

சங்க இலக்கியம் (அகம்-ஊம்) - 22UTAMC51

ஊம் பொன் வண்பாமலை - 22UTAMC52

1. தமிழர்களின் புறத்திணை வாழ்வியலை விளக்க தல.

2. பற்றித் தொக்கம் வளர்நிலைப் படிவமாகிய நி்கழுவகளைப் புறத்திணை அடிப்படையில் உணர்த்தல்.

3. அரசரம் மக்களம், நாடு, மொழி இனங்காக்கின்ற நிலையில் ஒன்றைப் புகின்ற தன்மையினை உணர்த்தல்.

4. ஈதலம், கமொழைப் பறத்தின்பாற்புத் தலை விளக்க தல்.

நூலாசிரியரின் தனித்திறமையை உணர்த் படி அமந்தை உள்ளு

1. ஊடக வகளை அறிந்தகள்ளு.

2. ஊடக பணிகளைத் தறிந்தகள்ளு.

3. ஊடகத்தறவைவேலை வாய்ப்புக் வழிகாட்டல்

ஊடகவியல் - 22UTAMC53

தி ராவிட மொழிகளின் ஒப்பாய்வு - ஓர் அறிமுகம் - 22UTAMC 54

1. இனத்தின் அடையாளம் மொழி உள்ளுதலை எல்படத்தலு.

2. திராவிட பல் மொழிகளின் தாய் மொழியாக தமிழ் முந்த வரலாறு காட்டல்.

3. திராவிட மொழிக் கூட்பங்கள் மொழிகளின் தன்மை என் உணர்த்தலு.

மெழியின் சிறப்பு அந்தந்த மெழிகளின் கூடும்பத்தில் நிறைந்திருப்பதை காட்டல்

1. தமிழர்கள் கட்டடக்கலையில் சிறந்த விளங்கியிருந்தமையைத் தெரிவித்தல்
2. சங்ககாலத்திற்கு முற்பட்ட காலத்தில் மகலநையம் உள்ளவரென்பதை அறிவித்தல்.
3. காலந்தேறும் கேவில்கட்டடமானங்கள் மாற்றமுற்றிருப்பதை ஆராய்வதில்
4. அரசர்கள் பரோவிடநிறந்தர்க்கலகைளை உரவாக்கியமையைத் தெரிவித்தல்.
5. மலகைளையும் கலகைளாக்கிய வன்மையை மென்மையை மென்மையையும் காட்டி வத

கேவில்கலமை பண்பாடும் - 22UTAME55-1

tpsks;guf;fiy - 22UTAME55-2

- 1) ஊடகங்களில் உள்ள பிறதற்களை பற்றிய அறிமுகம்
- 2) விளம்பரங்கள் பற்றிய வகைகளையும் எண்ணிக்கை பற்றி வற்றை அறிதல்
- 3) உற்பத்தியாளர் மற்றும் நகர்வரேகளுக்கான நடவடிக்கைகளை அறிதல்
- 4) விளம்பரம் சார்ந்த ஒழுக்கம் மற்றும் நெறிமுறைகளை பற்றி வற்றை அறிதல்
- 5) விளம்பரம் மெழியாடல், உத்திகள் மற்றும் சட்டங்களை அறிதல்

அறிவியல் சார்ந்த தவையினை எடுத்தரண்தல். தமிழின் பலதிறப்பதிவுகளை விளக்கதல். தமிழர்தம் அறிவியல் அறிவுகறித்த செய்கிளை விவரித்தல். வானியல், மரத்தவம், கலச்செல்லாக்கம் பற்றி தற்களை விளக்கி தமிழர்கள் முன்னேடுகைய இரந்தமையைக் கறித்தல்

அறிவியல் தமிழ்- 22UTAME55-3
அற இலக்கியம்- 22UTAMC 61

1. அற இலக்கியத்தின் வடிவம் உள்ளடக்கம் கறித்த அறிமுகம் செய்தல்
2. அற இலக்கியக் கல்வியின் தவையை எடுத்தரண்த தமிழ் அற இலக்கிய வரலாற்றை எடக்கரண்கல்
3. தமிழ் அற இலக்கியங்களின் தனித்தவம் விளக்கி கற்றல்
4. தமிழில் காலந்தேறும் தன்றி புள்ள இலக்கியங்களை விளக்கி கற்றல் மன்த மனம் அமதை பற்றவும் சமூக அமதை ஏற்படவும் உதவதல்

தண்டியலங்காரம்- 22UTAMC 62

1. செயலா, கவிதைகளை நயத்தாடன் கற்க வதைதல்
2. அணிகளை அறிந்த அபவிக்க வதைதல்.
3. படப்பாளரின் படப்பாளமையை ஆராய்ந்துணர்ச்சியெதல்

இலக்கியத்திறனாய்வியல் - 22UTAMC 63

1. இலக்கியம் கற்பதற்கும் ஆராய்ச்சிக்கும் திறனாய்வின் தவையை உணர்த்தப்படுகிறது.
2. திறனாய்வின் சிக்கல்களை எளிமையாக கறிந்துகொள்ளதல்
3. திறனாய்வின் வகைகளையும் நல்ல திறனாய்வற்றைகளையும் எடுத்தகற்றல்
4. திறனாய்வு பக்கை மாணவர்களுக்கா உணர்த்துவதன் மூலம் ஆய்வுகையைத் தண்டித்தல்
5. மாணவர்களை சிறந்த திறனாய்வர்களாக உருவாக்கதல்

நாட்டப்பற இலக்கியம்- 22UTAMC 64

மாணவ - மாணவியர்களிடயே நாட்டப்பற்ற மக்களின் வாழ்வையும், வாழ்வியல் தற்களையும் படம்பிடித்தக காட்டி வதே இப்பாடத்தின் நேக்கம் ஆகும்

ஒப்பிலக்கியம் - 22UTAME65-1

1. ஒப்பிலக்கியம் வழி உலக ஒற்றுமையை வளர்க்க இயலும்.
2. ஒரு மெழியின் மூலம், பிற மெழியில் உள்ள மூலம் ஆகியவற்றை அறிய முடியும்.

3. அடிக்ரத்த இலக்கிய வகை, கால்பபக்தி என்பன மெழி இலக்கியத்தில் பசேப ரௌள்க்கப்பபம்.
4. இலக்கியங்களைப் பிறதறகைளடன் ஒப்பி பம்ப தேசு பதீய சீந்தனைகளை கீடகைகம்.
தாக்கக்க கேடபாட்டினா ல் இலக்கிய வரவகளை உய்ததுணர மபியம்

மெழி பயெர்ப்ப - 22UTAME65-2

1) கால்நத தேரம் மெழி பயெர்ப்பின பின்பலத்தகை கறபித்தல்.
2) மெழி பயெர்ப்பின அவசியத்தபைம்பல்வறே தன்மகைளபைம் தனிச்சிறப்புகளபைம் உணர்த்ததல்.

அகராதி யல் - 22UTAME65-3

மெழி பயெர்ப்பில ஏற்படும் சிக்கல்களபைம் தீர்ப்பதற்கான வழிமுறைகளைபைம் கறபித்தல்
1) தமிழ்மெழியில் கால்நத தேரம் வளர்ந்தவந்த அகராதி மரபை அகராதி யல் அடிப்படையில் அறிய செய்தல்.
2) பழந்தமிழில் செவளத்தினைத்த தெய்தத்ச ச செலம் இலக்கண வகையான உரிச்ச செ மரபினையும் நிகண்டினையும் உணரச செய்தல்.
3) சிற்ப ரௌ அறிதல் மறமை நைம், ஓரம்பை ப ரௌத் தன்மை, பன்மபை ரௌத் தன்மை ஆகிய சிற்ப ரௌ வகைளமைம் அறிமகப்பபத்ததல்.
4) அகராதி வகைளனை அறிந்தக ரௌள்ச செய்தல்.
அகராதி உரவாக்க நறெ மறகைளகை கறபித்தது, அகராதி உரவாக்கதல் தெர்பாக ஆரவ மடிபதல்

படப்பிலக்கியம் - 22UTAMS66

1. மெழியபையிலுதல் எனம் தளத்திலிரந்த கடந்த மெழியனை ஆளமசையெயும் தளத்திறக அழதைச்சசெல்லல்.
2. படப்பாற்றலில் ஏற்படும் சிக்கல்களை களையிறுந்தட்டல்.
3. வாசிப்பு அளபவத்ததை தாண்டிய படப்பளபவ இன்பத்தனை உணர செய்தல்
4. தமிழ்ப்பிப்பேன பிப்பாளியாக மட்டமன்றி படப்பாளியாக வேண்டிய அவசியத்தனை பலப்பபச்சசெய்கல்.
படப்படிமுயற்சியில் சான்றேறின படப்படி மதேமயனை உணர்த்ததல்

PERIYAR ARTS COLLEGE, CUDDALORE, COURSE OUTCOMES -PG

COURSE NAME

SUBJECT NAME

COURSE OUTCOMES

MA TAMIL

22PTAMC11 இக்கால இலக்கியம்

1. கவித்தவ மெழியின் ஆளமனத்திறனை அறிவர்.
2. சமூக அடித்தள மக்கள் வளர்ச்சிப்பதிவுகளின் மனமகளை அறிவர்.
3. படப்புகள் வழி மனித உறவுகளின் தகவுகளை அறிவர்.
4. கலவைவளிப்பாட்டத்திறனை அறிவர்.
இலக்கியப்பதிவுகளைத் தற்கால மெழி வழி அறிவர்

22PTAMC12 தன்காப்பியம் மெழியியல்

1. தமிழ் எழ்த்தக்களின் பயெர்ட்டு முறைகள் சற்றுகளின் கட்டமானம் மதலியவற்றைப் பரிந்தக ள்வர்.
2. தமிழ் எழ்த்தக்களின் பிறப்பு முயற்சிகளபைம் தட்டச்ச சற்றுகள் உரவாக்கத்தின் அடிப்படகைளபைம் அறிந்தக ள்வர்.
3. புணர்ச்சியில் எழ்த்தக்களம் சற்றுகளம் தன்கையாகவும் உரபாகவும் சற்றுகட்டமானத்தின் அடிப்படயாக அமபைம் பழைத ஏற்படும் மாற்றங்கள் கறித்தததளெ வடவைர்.

	<p>4. புணர்ச்சியில் மயெயழைத்தக்களம் கற்றியலகர எழுத்தக்களம் ஊடாடும் பழைத எழுதம் திரிபுகளதைதளெவக ள்வர். தஸ்காப்பியரின எழுத்தியல் சிந்தனைகள் மனோட்ட அறிஞர்களின் ஓலியன்யலக டோபாட்களின் மன்னேமி என்பதை உணர்வர்</p> <p>1. இலக்கியத்தயெர்ச்சியழைம் விரிவழைம் அறிவர்.</p> <p>2. இலக்கியத்திற்கும் சமுதக உறவிற்குமான தயெர்பதை அறிவர்.</p> <p>3. வாழ்வியல் விழியங்களதை அறிவர்.</p> <p>4. மழை ஆளகயைதை அறிவர்.</p>
<p>22PTAMC13 சிற்றிலக்கியம்</p>	<p>படப்பிலக்கியப்பயிற்சி பறெவர்</p> <p>1. ஓரமப்பாட்ட உணர்வதை பறெவர்.</p> <p>2. தஸைமழைதயெங்கி தற்கால அதிகாரமழை வரயிலான படப்பாகக மாற்றங்களதை அறிவர்.</p> <p>3. இலக்கியபாரம்பரியமழைகளின் வளெப்பாட்டத்திறனைதை அறிவர்.</p> <p>4. கர்த்தப்பலப்பாட்டக்கம் மழை ஆளககைதமான தயெர்பதை அறிவர்.</p>
<p>22PTAMC14 - இந்திய இலக்கியம்</p>	<p>வாழ்வியல் விழியக துறகளை அறிவர்</p> <p>1. ஓப்பிலக்கியக டோபாட்களைப் பயிற்ற வித்தல்.</p> <p>2. தமிழிலக்கியங்களதை ஓப்பிலக்கியக டோபாட்களின் அடிப்படயில் நக்சுக கற்பித்தல்.</p> <p>3. தமிழிலக்கியங்களதை பிறமழை இலக்கியங்கள டன் ஓப்பிட சயெத ளளவற்றதை அறிமகப்படுத்தல்.</p> <p>4. இலக்கியங்கள வழி ஓரமப்பாட்ட ணர்வலை உரவாககமுனதைல்.</p> <p>இந்திய இலக்கியம், உலக இலக்கியம் ளனளம் உயர் இலக்கியப்படப்பதை உரவாககமுனதைல்.</p>
<p>22PTAME15 - 1 ஓப்பிலக்கியம்</p>	<p>1. சவைய அடிப்படகை டோபாட்களை அறிவர்.</p> <p>2. சித்தாந்தக டோபாட்களின் அடிப்படதை அலககளை அறிவர்.</p> <p>3. சித்தாந்தக டோபாட்களின் உண்மைதன்மயைழைம் உயர்தன்மயைழைம் அறிவர்.</p> <p>4. சித்தாந்தநூல்களின் நவல்பராணமைகளை அறிவர்.</p> <p>சித்தாந்தக ளககளை வழி இறதைத்தவ உணர்வினதை அறிவர்</p>
<p>22PTAME15 - 2 சுவைசித்தாந்தம்</p>	<p>1. தமிழமழை அகராதிக்களின் வரலாற்றினதை அறிவர்.</p> <p>2. அகராதிக்களின் வககளை அறிந்தக ள்வர்.</p> <p>3. சஸையன்பாட்டழைம் இலக்கணக்கறிப்புகளழைம் உணர்ந்த அறிவு பறெவர்.</p> <p>4. அகராதியில் இடம் பறெம் சறர்களின் தன்மயைழைம் முனளரிமயைழைம் உணர்வர். அகராதியின் கட்டமப்பில் சறர்களின் வரிசிமுறயைதை அறிவர்</p>
<p>22PTAME15 - 3: அகராதியியல்</p>	<p>1. பண்பாட்டப்பரெமிதம் க ள்வர்.</p> <p>2. தமிழின் தனித்தன்மயைதை அறிவர்.</p>
<p>22PTAMO16 - 1 தமிழ்ப்பண்பாட்ட வரலாறு</p>	

3. சங்கத்தமிழர் த மொங்கித் தற்காலத் தமிழர் வர யி லான பண்பாட்டி ன் த மொர்ச்சி யி னை அறி வர்.

4. தமிழ்ப் பண்பாட்டி ன் கம் அயல் பண்பாட்டி ன் கம் மான வறே பாட்டி னை அறி வர்.

தனி பண்பாட்டி ன் ர் ந்த ப ன்பண்பாட்டி ன் மாற்றத்தி ன் கான அரசி ன் லபைறே கான காரணங்களை அறி வர்

1. மி த்தமிழி ல் ஒன்றான தமிழி ன் ஆழ அகலங்களைக் கற்றத் தனி வத டே கட்டி ம திறனை வளர்த்த க க ண்ட இரசி க மன டோவத்தி ன் உர வாக்கல்.

2. காலந் த டே ம் தமிழி ன் லபைபாட்டி னை அறி ந்த க ண்டவர்.

3. தமிழி ன் இசைக் கர வி கி ன் பயன்பாட்டி அறி வதை தரி ந்த க ண்டவர்.

4. இசைக் கல ன் ரக ள் ம் இசை ஆய்வா ள் ரக ள் ம் தமிழி ன் லபைறே க் ஆற்றி ய பங்க பணி யி னை அறி வர்.

தமிழி ன் வரே டும் வி ழ த க ளை யும் அறி வர்

1. தமிழி ல் கி யங்களி ல் பதி வா கி யு ள்ள அறி வி யல் சயெதி களை அறி வர்.

2. தமிழி ல் கி யம் அறி வி யல் சயெதி களை வளி ப்பட த்தி ன்களை அறி வர்.

3. தமிழி ல் ம டி யி ல் அறி வி யல் சயெதி களை எழ த ம டி யும் என்பத வை வளி ப்பட த்தி ன்களும்.

4. அறி வி யல் எழ த்தி ன்களை எழ த ம டி யெர்ப்பு ம் தன்மை என்பத வை உண்ரவர். அறி வி யல் எழ த்தி ன்கள் இதழ்கி ன் வளி ப்பட ம் ப டி த ம டி வளி ப்பாட்டி த்தி ன்களை அறி வர்.

1. சமயம் இலக்கி ய அறி வை அறி தல்.

2. பல்வறே சமயக் க டி பாட களை அறி தல்.

3. இற னை ன் டே என்னம் ஓர் ம ப்பாட்டி உண்ரவை அறி தல்.

4. இலக்கி ய வக மை களை அறி தல். பட ப்பாற்றல் தி ன் பற தல்

1. த னை காப்பி யி ன் ச ன், த டி, இலக்கணப் புலமையை அறி ம் கம் சயெதல்.

2. த டி ம ப்பாட்டி ல் ஏற்பட ம் ப டி ள் மாற்றங்க ள் கான அபிப்பாடிக் து களை வி ள்க்க தல்.

3. ச ன் னி ன் அபிப்பாடிக் து களை வி ள்க்கி ப் பயன்பாட்டி க் து களை அறி ம் கம் சயெதல்.

4. பயெர், வி னைச் ச ன் ளி ன் ப டி ள் நீட்சி க் க காரணமான து களைப் ப டி த்தி க் காட்டி தல்.

5. ச ன் னி ல் க்கண மரபுகளை அபிப்பாட யா க் க ண்ட தற்கால ம டி யி ல் வளர்ச்சி யைப் ப டி த்தி க் காட்டி வி ள்க்க சயெதல்.

1. ஆராய்ச்சி என்னம் சி ந்தனையை மாணவர்கள் உளங்க ள் ளி ம் வக யி ல் அறி தல்.

2. ஆராய்ச்சி நறி ம் னைப் பயி ற்ற வி த்தல்.

22PTAMO16 - 2 இசைத் தமிழி ழ

22PTAMO16 - 3 அறி வி யல் தமிழி ழ

22PTAMC21 சமய இலக்கி யம்

22PTAMC22: த னை காப்பி யம் ச ன் னி காரம் ம் ம டி யி ல்

22PTAMC23: ஆராய்ச்சி நறி ம் னை

3. ஆராய்ச்சிக்கப் பயன்படும் கோட்பாடுகளைக் கற்றுல்.
4. ஆய்வேட்டின் விவமப்பற்றிப் பயில்தல். ஆய்வில் மறேக ஂள வண்பிய அறம பற்றி அறி தல்

22PTAMC24: கலசைச ஂலாக்கம்

1. கலசைச ஂலாக்க வரலாற்றை அறி வர்.
 2. கலசைச ஂலாக்கத்தின் தவேயை அறி வர்.
 3. ச ஂறகளைத் தர்ப்பட்தம் திறனைப் பறெ வர்.
 4. புதிய ச ஂறகளை உர வாக்கம் திறனை அறி வர்.
- அறி வியல் தமிழ்நூ ல்களை எழ தம் திறனைப் பறெ வர்

22PTAME25 - 1 பணணையம்

1. பணணையக் கோபாட்டை அறி வர்.
2. பணணைக்கான சம உரி மகைகேட்கம் அமப்புகளை அறி வர்.
3. பணணைக்கான உரி மப்ப ஂரின் எல்லகளை அறி வர்.
4. பணணைக்கான எழத்தின் வலி மயை அறி வர்.

22PTAME25 - 2 சவபியியல்

- பணம ஂறி கறித்த அறி வர்
1. சவபியியல் அறி வப்பறெ வர்.
 2. சவபிப் பயன்பாட்டை அறி வர்.
 3. சவபிகளைப் பாத காக்க வண்பிய தவேயை அறி வர்.
 4. சவபி எழத்தைப் பிக்கம் திறனைப் பறெ வர்.

22PTAME24 - 3 ப ஂரணமயியல்

- தமிழாய்வு உலகில் சவபிகளின் ம தனமயை அறிந்த ப ஂறெ வர்
1. ப ஂரணமயியலின் அப்படகளை அறி வர்.
 2. அகராதிப் ப ஂரணமயியலின் துறகளை அறி வர்.

3. ப ஂரள மாற்றத்தின் பின்புலத்தை அறி வர்.
 4. ப ஂரணமயியலின் கோபாடுகளை அறி வர்.
- ப ஂரணமயியலின் வளர்ச்சிப் ப ஂக்ககளை அறி வர்

2PHUMR27: HUMAN RIGHTS

- 1) To understand the conceptual background of Human Rights.
 - 2) To study international and regional norms and institutional mechanisms of Human Rights.
 - 3) To know the international concern for Human Rights.
 - 4) To explore the emerging issues in international human rights.
- To study the Classification of Human Rights

22PTAMC31: காப்பியங்கள்

1. காப்பியப் புலப்பாட்டை நறியினை அறி வர்.
2. வாழ்வியல் விழ மியங்களை அறி வர்.
3. பல சமயக் கோபாடுகளை அறி வர்.
4. பண்பாட்டை நாகரிகக் துறகளை அறி வர். படப்பாக்கத்திறனைப் பறெ வர்

22PTAMC32: த ஂகாப்பியப் ப ஂரள்தி காரம்

1. சங்கத் தமிழின் திணைக் கோபாட்டின் அப்படலை அலககளை அறியச் செய்தல்.
2. தமிழின் இர கண்களான அகப்பறக் கோபாட்டின் ப ஂரத்தப்பாட்டை உணர்ச்ச செய்தல்.

தன் சமு கம் த மொங்கி வழக்கி லி ர்க்கம் மண
மு றகைளபைம் சமு கப்பிநி லை
வளர்ச்சி யபைம் ப ரொத்தி அறி ய்ச்செய்தல்
1. நி லவடமைசை சமு க்க காலத்தில ஏற்பட்ட
கட ம்ப அமண்பி ன வளர்ச்சி ப பிநி லயி ன
கு றகைள வி ளக்கி க து றல்

அகப்பற்க க ேபாட்ட களை உள்ளடக்கி ய
செய்யுளாக்க உத்தி களை எட த்த ர ண்தல்

22PTAMC33 உர யி யல்

1. தமிழ் ல வழங்கி ய உர மைரபுகளை அறி தல்.
2. இலக்கி ய இலக்கண உர கைள பற்றி க கற்றல்.
3. உர பைற்றி ய ஆய்வுகளை மறேக ொளத்
து ண்ட தல்.
4. உர ஆளு மகைள அறி தல்.

22PTAMC34 திறனா ய்வுக்க ேபாட்ட கள ம் அண க மு றகைள ம்

- உர கைழ த ம் திறனைப் பறெ தல்
1. இலக்கி யத் திறனா ய்வு பற்றி ப
பயிற்ற வி த்தல்.
 2. இலக்கி யத் திறனா ய்வுக்க ேபாட்ட களைப்
பயிற்ற வி த்தல்.
 3. மலேநாட்டத் திறனா ய்வுக்
க ேபாட்ட களைபைம் அண க மு றகைளபைம்
அறி மு கப்படி த்த தல்.
 4. திறனா ய்வுக்க ேபாட்ட களைத் தமிழ்
இலக்கி யங்களி ல ப ரொத்தி ப பார்த்தல்.

நவீனத் திறனா ய்வுக்க ேபாட்ட களை அறிந்த
இலக்கி யக் கர ப்ப ரொட்களை அறி வ்ர

22PTAME35 - 1 சி த்தரி யம்

1. ப்கதி இலக்கி ய நீட்சி நி லயி னை அறி வ்ர.
2. சி த்தர இலக்கி யத்தி ன தன்மகைள அறி வ்ர.
3. சி த்தரகளி ன ஆளு மபை பண்புகளை அறி வ்ர.
4. சி த்தரகளி ன க ொக கைள அறி வ்ர.

சி த்தர இலக்கி யங்களி ன பயன்களை அறி வ்ர

22PTAME35 - 2 பதி ப்பி யல்

1. நூ லாக்க மு யற்சி யி ன பி ன்பல்ததை அறி வ்ர.
2. அச்சக பதி ப்பக பதி ப்பாசி ரீ ய்ர வரலாற்றை
அறி வ்ர.

3. தமிழ் பண யாற்றி ய அறி வா ள மகைள ன
பங்கு பண யை அறி வ்ர.

4. நூ லாக்கப் பண யி லு ளள

அறி வ்ததி ற்பாட்ட களை அறி வ்ர.

வலையையிப்பத்தி றனைப் பறெ வ்ர

22PTAME35 - 3: கண னி ம ெழி யி யல்

1. கண னி ம ெழி யி யலைப் பற்றி அறி வ்ர.
2. கண னி ம ெழி களை பற்றி அறி வ்ர.
3. கண னி யமை ெழி ஆய்வுக்கப்
பயன்படி த்தம் மு றகைள அறி வ்ர.
4. கண னி பல்லு டகப் பயன்பாட்ட க்கப்
பயன்படி மாற்றை அறி வ்ர.

வலையையிப்பத்தி றனைப் பறெ வ்ர

2. கண னி ம ெழி களை பற்றி அறி வ்ர.

3. கண னி யமை ெழி ஆய்வுக்கப்

பயன்படி த்தம் மு றகைள அறி வ்ர.

4. கண னி பல்லு டகப் பயன்பாட்ட க்கப்

பயன்படி மாற்றை அறி வ்ர.

கண னி தமிழ் ய்வுக்கத் தணையா க மாற்றை

அறி வ்ர

1. தாய் ம ெழி ஆட்சி ம ெழி யாக வுண்டம்

என்பதை அறி வ்ர.

2. தமிழ் ஆட்சி ம ெழி , மயை அரசி ன ஆட்சி

ம ெழி , உலக நாட களி ல ஆட்சி ம ெழி களை

கறி த்த அறி வ்ர.

22PTAMO36 - 1 ஆட்சி த்தமிழ்

22PTAMO36 - 2 கண்ணீர்தமிழ்

3. தமிழ் ஆட்சி மொழித்திட்டத்தில் ஏற்பட்டிருக்கக்கலகளையும் தீர்வுகளையும் மாணவர்கள் தரிந்தகண்வர்.

4. கலச்செற்கள் - மொழியாக்கம் - ஆட்சி மொழிச்சட்டங்கள் கறித்த மாணவர்கள் அறிவர்.

எழுத்தத்திறன்ம் வரணத்திறன்ம் பற்றத்திகழ்வர்

1. கண்ணீர் அறிவின அறிமகம் பற்றவர்.

2. கண்ப்பொறிகளின் வகைகளை அறிவர்.

3. கண்ணீரின் மனப்பொள்கள் கறித்த அறிவர்.

4. கண்ணீரின் உதவியால் உரவாக்கப்பற்றம் அகராதிகளபற்றி அறிவர்.

22PTAMO36 - 3 விளம்பரக்கலை

தமிழ் இணையம் பற்றம் தன்மையை அறிவர்

1. மனிதவாழ்வு விளம்பரங்களோ

தொற்படையை என அறிவர்.

2. விளம்பரங்கள் வணிகத்திற்கு

முதன்மையை என அறிவர்.

3. விளம்பரங்களின் விவங்களைப்பற்றி அறிவர்.

4. விளம்பரத்தளங்களை அறிவர்.

விளம்பர உரவாக்கப்பண வழிவலை வாய்ப்பைப்பற்றவர்

22PTAMC41 சங்க இலக்கியம்

1. தமிழரின் தன்மையை இலக்கியங்களின் பாடநறிசெலகையை அறிவர்.

2. சங்கத்தமிழரின் அகமரபுக்கோபாட்களை அறிவர்.

3. சங்கத்தமிழரின் வாழ்வியல் விழியங்களை அறிவர்.

4. சங்கத்தமிழரின் பண்பாட்டிற்கு நாகரிக

அரசியல் வரலாற்றின் தொக்க

நிலைககுறுகளை அறிவர்.

சங்கப்பாக்களின் வளைப்பாட்டி உத்திகளை அறிவர்

22PTAMC42: தன்காப்பியம் - பராளதி காரம்

1. உடல் மொழி என்னம் கரத்தியலை அறிவர்.

2. செய்புள் அழகின் அபிப்படைகளை அறிவர்.

3. செய்புள் உற்புகளின் நிலைகளை அறிவர்.

4. தமிழரின் அறிவுக்கோபாட்டின் எல்லகளை அறிவர்.

தன்காப்பியரின் சென், தொர், இலக்கணப்பலமையை அறிமகம் செய்தல்

22PTAMC43: அற இலக்கியம்

1. அறம் சார் வாழ்வியல் நறிகளை அறிவர்.

2. காலந்தேற்றம் மாறி வரம் அற வாழ்வியல் குறுகளை அறிவர்.

3. தனி மனித, சமூக அரசியல் அறநறிகளை அறிவர்.

4. மனித உறவுகளின் மனமக்கான தகவுகளைப்பற்றவர்.

படப்பிலக்கிய பயிற்சியினைப்பற்றவர்

22PTAME45 - 1: பரையாரியம்

1. சிந்தனையாளர்களை சிந்தனை வளர்ச்சிப்பேசுகளை அறிவர்.

2. தமிழரின் அறிவுச்சிந்தனை செல் நறியை அறிவர்.

3. பண்கள் தன் நிலப்பாட்டி உணர்வைப்பற்றவர்.

4. பரையாரரின் சிந்தனை நிலக்களன்களை உணர்வர்.

22PTAME45 - 2 நடநாட்டியல்

பெரியார்க்கும் இலக்கியத்தக்கமான
தொடர்பை அறிவார்

1. வட்டார வரலாற்றுப்பின்னணியை அறிந்த
கொள்வார்.

2. பழம்பெருமகளை உணர்ந்த
கொள்வார்.

3. சமய இலக்கியப்பின்னணியின் வளர்ச்சி
பேச்சினை அறிந்த
தள்ளுவார்.

4. தற்கால இலக்கிய ஆள
மகளை
வரலாற்றினை அறிந்த
கொள்வார்.

தற்கால இலக்கிய ஆள
மகளை
மண்ணையும் மக்களையும்
வளப்படுத்தும்
படப்பாக்க உத்திகளை
புரிந்த
கொள்வார்

1. மெழுகு
நடபை
அறிவார்.

2. இலக்கிய
நடபை
அறிவார்.

3. நடமை
மெழுகு
நடபை
நடபையல்
கறித்த
அறிவார்.

4. மெழுகு
யல்க்கும்
நடபை
கொள்வார்
தொடர்பை
அறிவார்.

இலக்கிய ஆய்வில்
நடபையின்
இயல்பினை
புரிந்த
பார்வையாளர்
அறிவார்

MA ENGLISH

22PENG11: CHAUCER AND ELIZABETHAN AGE

1) Acquaint the students with the literary forms woven in English language and the literary contribution during the age of Chaucer.

2) Enable the student to understand the historical and cultural heritage of the ages

3) Familiarize them with the canons of British literature produced during the age of Chaucer.

4) Help the students familiarize with the diction and the literary technique employed by the writers of the era.

5) Improve the skills of reading, analyzing and understanding the specific scope of literature.

22PENG12: JACOBEAN AND RESTORATION AGE

1) Gain awareness about the themes and writing styles of the period.

2) Understand the socio political background of the age.

3) Identify the influence of literature of the period on modern times.

4) Understand the similarities of the themes till date.

5) Gain the spirit of the ages.

22PENG13: SHAKESPEARE

1) Enable the students to appreciate the genius of Shakespeare which has made him a classic of eternal value.

2) Enable them to know the historical and present day value of Shakespeare, the Poet-dramatist.

3) Trace the evolution of Shakespeare's vision and art.

4) Help the student to acquire first-hand knowledge of the plays and poetry of Shakespeare.

Make the students familiar with the critical judgment through ages

22PENG14: PHONETICS AND HISTORY OF ENGLISH LANGUAGE

1) Enable the students to have an idea of the growth of English as the world language.

2) Enable the students to have an idea as a great borrower, an assimilator, and a propagator.

3) Enable the students to have an idea as an assimilator and a propagator.

4) Impart proficiency in pronunciation and oral communication.

Enable the students to train them in the sounds of the language

22PENGE15-1: TECHNICAL WRITING

- 1) Understand the format requirements.
- 2) Know how to present the information intelligently.
- 3) Estimate the structure formation.
- 4) Understand how to convey the message to the readers.

Know how to articulate the subject matter lucid manner

22PENGE15-2: POST COLONIAL LITERATURE

- 1) Identify the key concepts and literary forms in postcolonial literatures.
- 2) Discuss and analyse colonial and postcolonial discourse.
- 3) Distinguish how race, class, gender, history and identity are presented and
- 4) problematized in the literary texts.
- 5) Examine the texts critically in relation to postcolonial theory.

Evaluate and formulate arguments about postcolonial literatures and texts

22PENGE15-3: WORLD POPULAR SHORT STORIES

1. Introduce students to some of the important short stories of the world.
2. Enable the students to study the various techniques and styles employed by the authors.
3. Help them in gaining some insights into the socio-cultural aspects of the regions from where the texts are chosen.
4. Stimulate the sympathetic / empathetic imagination by allowing them to see the world through other's eyes.
5. Induce them to apply their analytical, critical and creative skills in interpreting a work.

22PENGO16-1: PUBLIC SPEAKING

- 1) Learn to speak confidently in a variety of situations.
- 2) Learn a variety of speaking types. To become a better listener and learn what makes a speech works.
- 3) Learn to speak clearly with Proper modulation.
- 4) Motivate the students to understand the importance of public speaking.

Learn to stand straight and make eye contact

22PENGO16-2: FILM STUDY

- 1) Introduce students to the evolution of films
- 1) Introduce significant movements in cinema
- 2) Help students analyse films as an art form
- 3) Gain knowledge film language
- 4) Understand editing, camera angles and movements as well as the sound in cinema

22PENGO16-3: ENGLISH FOR TOURISM

- 1) Cover a wide range of topics of Tourism
- 1) Develop a broad tourism-related vocabulary
- 2) Develop speaking skills needed for job-related situations
- 3) Promote grammatical accuracy with Language
- 4) Gain knowledge of tour guide

22PENG21: THE ROMANTIC AGE

- 1) Enable the learners to get acquainted with the unique characteristics of the literature of the Romantic Ages.
- 2) Enable the learners to get acquainted the knowledge of the Literature.

- 3) Enable the learners to appreciate and enjoy nature.
- 4) Enable the learners to have a chance to learn aesthetic pleasure.

Enable the learners to know about the romantic movements

22PENG22: THE VICTORIAN AGE

- 1) Enable learners to understand the spirit of Victorian England and its influence on poetry.

2) Enable the students to see the relevance of the Victorian times to modern times.

3) Make the students to study in details the literary background of the Victorian era and its feature.

4) Introduce through the key texts the development of the Victorian era.

Keep a focus on the concept Victorian age

1) Enable the students to get acquainted with ecological issues.

2) Introduce them to eco literary theory so as to understand Eco literature.

3) Introduce the students, to Eco criticism, which is one of the most relevant critical theories of the post-modern era.

4) Trains them to approach social issues eco-critically.

Articulate a deeper understanding of topics, issues, and themes as expressed in environmental literature

1) Familiarise the students to the theories and practice of fantasy literature.

2) Enable the students to get acquainted with the various theories of fantasy literature.

3) Make the students comprehend the different concepts, approaches, and critical practices of fantasy literature.

Motivate the students to understand the importance of fantasy literary studies

1) Familiarize the genres of oral literature.

2) Enable them to find connection and continuities as well as to identify the disjuncture between oral and written texts viz. past and present.

3) Develop a sense of appreciation and the aesthetics.

4) Encourage the free and independent thought to any research orientation.

Develop the skills of interpretation, appreciation of literature as well as writing and presentation skills

1) Introduce the students to the different theories of translation.

2) Enable the students to understand the significance of translation studies in general.

3) Encourage the students to acknowledge the importance of translation in a multilingual country like India.

4) Familiarize them with the theories of translation and the current practices.

Inspire the students to critically evaluate and appreciate the translated genres

1) Introduce the learners to the major literary endeavors of women authors.

2) Initiate discussion on issues addressed in the works of women authors.

3) Know the recent developments, in terms of themes, and narrative techniques adapted by the women writers.

4) Enable them to analyze literary texts through the perspective of gender.

Know the central points of womanism and feminism

1) To understand the conceptual background of Human Rights.

2) To study international and regional norms and institutional mechanisms of Human Rights.

3) To know the international concern for Human Rights.

4) To explore the emerging issues in international human rights.

22PENG23: ECO LITERATURE

22PENG24: FANTASY AND HORROR LITERATURE

22PENG25-1: ORAL NARRATIVES

22PENG25-2: TRANSLATION THEORY AND PRACTICE

22PENG25-3: WOMENS WRITING

2PHUMR27: HUMAN RIGHTS

22PENG31 - TWENTIETH CENTURY BRITISH LITERATURE

To study the Classification of Human Rights

1) Familiarize the social and historical background of the period.

2) Understand the trends of the century

3) Help the learners know the texts that reflect the socio-cultural interests

4) Understand the discourse of the century

5) Estimate the style of the writers of the century

1) Enable the students to have an overview of major authors who have contributed to the development of American literature.

1) Acquaint them with the social and political events that have influenced the writers.

2) Introduce the students to the literature of America.

3) Familiarize them with the important literary movements

4) Give them first-hand knowledge of the outstanding works and authors

1) Familiarize the students to colonial as well as post-colonial writings.

2) Introduce the variety of New Literature in English.

3) Make the students aware of the double identity of both colonizer and colonized.

4) Introduce them to the post-colonial theories.

Promote understanding of the learners about different approaches to culture, nationalism, multi-culturalism, gender, and race in the context of post-colonial societies and literature

22PENG32: AMERICAN LITERATURE

22PENG33: NEW LITERATURE IN ENGLISH

22PENG34: RESEARCH METHODOLOGY

1) Help students to prepare a Dissertation of their own.

1) Prepare students for quality research in future.

2) Train students in using parenthetical documentation as recommended in the MLA Hand Book.

3) Help the learners know the Definitions, Variables and Research questions, etc.

Let the learner explore the Research Design, the difference between Quantitative and Qualitative Research

1) Introduce the students to theories of language and language learning.

1) Enable them to know the implications in teaching and learning.

2) Introduce them to the principles of course designing.

3) Help the students to know the importance of testing and evaluation.

Familiarize the students with the prevailing methods of English language teaching

1) Enable the learners to realize how translations reflect cultural and aesthetic values.

22PENG35-1: ENGLISH LANGUAGE TEACHING

22PENG35-2 - INDIAN CLASSICS IN TRANSLATION

1) Acquaint them with the uniqueness of regional literature.

2) Make them apply critical faculties and explore the works for aesthetic appreciation.

3) Make them comprehend the values of life in various philosophies and cultures.

Facilitate them acquire the potential to become academicians, critics, creative writers

1) Enable the students to get to know the press, its history and other media.

22PENG35-3: JOURNALISM AND MASS COMMUNICATION

1) Train the students for a profession in journalism and advertising.

2) Get the knowledge of Print Media.

- 3) Demonstrate an understanding of professional ethical principles.

Evaluate the importance of the mass media in the society

22PENGO36-1: ENGLISH FOR BUSINESS CORRESPONDENCE

1) Equip students acquire skills in communication and also use electronic media for business communication.

1) Enable them to overcome their barriers in effective communication.

2) Familiarize them with varied forms of business correspondence.

3) Build up their vocabulary and enable them to construct error free sentences.

Make them draft a professional resume as required by the employers

1) Help the student analyse specific myths or bodies of myths.

1) Make the student identify if a given myth stems from patriarchal culture or a matriarchal substratum.

2) Reflect a deeper understanding of their own beliefs.

3) Recognize when ethnocentric judgments are being made in a cross-cultural context.

Compare and contrast myths from different times and places

22PENGO36-3: ENGLISH FOR FRONT OFFICE MANAGEMENT

1) Expose the students to other important skills.

1) Equip the students with the skills to effectively communicate in English and official letter writing.

2) To enhance employability skills in students.

3) Train the students in interview skills and GD and prepare CV

4) Inculcate the skills in students which are requested for their career development.

1) Enable the students to understand the evolution of Indian literature in English.

22PENG41 - INDIAN LITERATURE IN ENGLISH

1) Expose them to regional literature translated in English.

2) Bring them awareness on social, political and cultural issues reflected in literary works.

3) Make them realize the moral and spiritual values of Indian society.

4) Familiarize them with historical movements and the cultural traits of Indian English Literature.

22PENG42: CONTEMPORARY LITERARY THEORIES

1) Reinforce the critical sensibility of students

2) Make students understand important critical theories.

3) Expose students to recent critical theories

4) Reinforce the student's literary competence

Help the students to critically interpret literary texts

22PENG43: ENGLISH LITERATURE FOR COMPETITIVE EXAMINATIONS

1) Help learners have a wide range of knowledge in literature.

2) Help learners prepare for UGC Eligibility tests for JRF and Assistant Professorship.

3) Keep a focus on every movement of literary device.

4) Enable the students to have an idea of the spirit of literature.

Obtain literary acumen in answering multiple choice questions for SET/NET

1) Introduce the students to the theories and practice of comparative literature

22PENGE45-1: COMPARATIVE LITERATURE

2) Enable the students to get acquainted with the various theories of comparative Literature.

22PENGE45-2: MYTH AND LITERATURE

- 3) Make the students comprehend the different concepts, approaches, and critical practices.
- 4) Motivate the students to understand the importance of comparative studies
- 5) Train the students to acquire comparative skill in the literary arena.

- 1) Understand the myths in literature.
- 1) Identify the elements of myth that stem from patriarchal cultures. Reflect with deeper understanding on their own beliefs.
- 2) Understand the ethnocentric judgments made in a cross-cultural context.
- 3) Compare and contrast myths from different times and places.

22PENGE45-3: ORAL COMMUNICATION SKILLS (PRACTICAL PAPER

- Help the student to have deeper understanding of their beliefs
- 1) Develop an understanding of the process of oral communication.
 - 1) Make the students communicate spontaneously with remarkable fluency and ease of expression.
 - 2) Enable them speak with reduced anxiety by recognizing and using communication strategies.
 - 3) Make them produce well-structured speech with connectors and cohesive devices.
 - 4) Enrich their interpersonal skills.

MA HISTORY

22PHISC11: SOCIAL AND CULTURAL HISTORY OF INDIA UPTO 1206 C.E.

- 1) Know the social and cultural history of ancient India.
 - 2) Understand the Indus Civilization, Vedic culture and principles of Buddhism and Jainism.
 - 3) Study the society and culture during the age of Mauryas, Sathavahanas and Kushans.
 - 4) Learn the contributions of Gupta Empire to the development of education, art and architecture.
- Acquire knowledge about the socio-cultural conditions on the eve of Arab invasions in India

22PHISC12: HISTORY OF TAMIL SOCIETY AND CULTURE UPTO 1336 C.E.

- 1) Know the sources for the history of ancient Tamilnadu.
- 2) Learn the social, economic and cultural achievements of Sangam age.
- 3) Study the importance of Kalabhra interregnum.
- 4) Understand the contributions of Pallavas to the development of art and architecture.
- 5) Acquire knowledge about the First and Second Pandiyam Empires and legacy of Cholas.

22PHISC13: HISTORY OF ANCIENT CIVILIZATIONS (EXCLUDING INDIA)

- 1) Understand the origin and growth of the ancient civilizations of the world.
- 2) Learn the significance of river valley civilizations.
- 3) Know the Persian and Hebrew Civilizations.
- 4) Explain the key features of classical civilizations.

Acquire knowledge about Chinese, Japanese Civilizations and comprehend the characteristics of Maya, Aztec and Inca Civilizations

22PHISC14: HISTORY OF EUROPE 1789 C.E TO 1919 C.E

- 1) Understand the French Revolution and the revolutions of 1830 and 1848 and their impacts.
 - 2) Learn about the Industrial Revolution and the socialist and labour movements in Europe.
 - 3) Know the Bismarck's diplomacy and the new balance of power.
 - 4) Understand the European powers and the Ottoman Empire.
- Acquire knowledge about the Russian Revolution and the First World War

22PHISE15-1: PRINCIPLES AND METHODS OF ARCHAEOLOGY	<p>1) Explain the meaning and the scope of the study of Archaeology.</p> <p>2) Comprehend the various aspects of Archaeology.</p> <p>3) Study how the past is derived from the archaeological remains.</p> <p>4) Understand the methods of exploration and excavation. Acquire knowledge about the important archaeological sites in India</p>
22PHISE15-2: TOURISM AND HERITAGE MANAGEMENT	<p>1) Impart knowledge about the origin and development of Tourism in India and principles of Heritage Management.</p> <p>2) Enrich the learners over the diversified culture and festivals of the India.</p> <p>3) Enable the student to understand the significance of Tourism and its impact on the Economic Development of our Country.</p> <p>4) Acquire knowledge on the impact of Heritage Tourism. Understand the indicators of sustainable Tourism</p>
22PHISE15-3: ECONOMIC HISTORY OF INDIA UPTO 1526 C.E	<p>1) Know the Economic condition of Early Vedic and Later Vedic Period</p> <p>2) Study the Economic condition of North India between 6th century B.C.E and 4th Century B.C.E</p> <p>3) Learn the trade and commerce of Satavahanas</p> <p>4) Understand the coinage and Economy of Pallavas, Choals and Pallavas</p> <p>Acquire knowledge about the trade and commerce under the Sultanate of Delhi</p>
22PHISO16-1: WOMEN STUDIES IN INDIA	<p>1) Understand the concept of Feminism.</p> <p>2) Acquire the knowledge on the atrocities committed against women.</p> <p>3) Know about women's organisations and political rights.</p> <p>4) Learn about the various Government welfare schemes for women.</p> <p>5) Gain knowledge about the legal rights and the empowerment of women in all fields.</p>
22PHISO16-2: PANCHAYAT RAJ INSTITUTIONS IN INDIA	<p>1) Comprehend the evolution of Panchayat institutions in ancient and medieval India.</p> <p>2) Learn the developments in local self-government during the British period.</p> <p>3) Study the committees on Panchayat Raj system.</p> <p>4) Understand the importance of 73rd and 74th Constitutional Amendments Act.</p> <p>5) Acquire knowledge about Panchayat finances and Panchayat Raj institutions in Tamil Nadu.</p>
22PHISO16-3: INDIAN CONSTITUTION	<p>1) Understand the making of India's Constitution.</p> <p>2) Learn the nature and salient features of the Constitution of India.</p> <p>3) Know the powers and functions of Union Executive and Legislature.</p> <p>4) Understand the powers and functions of the state governments.</p> <p>Acquire knowledge about the Indian Judicial System and the relations between the Union and the States</p>
22PHISC21: SOCIAL AND CULTURAL HISTORY OF INDIA FROM 1206 C.E. TO 1773 C.E.	<p>1) Know the social and cultural history of medieval India.</p> <p>2) Learn the social, economic and cultural achievements of the Mughal Empire.</p> <p>3) Study the development of arts and architecture in medieval India.</p> <p>4) Understand the social and economic conditions under the Marathas.</p>

**22PHISC22: HISTORY OF TAMIL SOCIETY AND CULTURE
FROM 1336 C.E. TO 1800 C.E.**

Acquire knowledge about the Bhakti and religious reform movements and the impacts of European Penetration into India

- 1) Gain knowledge on society during the Vijayanagar period.
- 2) Know the social and cultural conditions under the rule of Nayaks and Marathas.
- 3) Study the service of Christian Missionaries for the Tamil Language and socio-religious condition under the Nayaks of Thanjavur.
- 4) Acquire knowledge about the Society, Education and Economy of the Nayaks of Senji.

Understand the Society and Culture during the Nawabs and Sethupathis of Ramnad.

**22PHISC23: HISTORY OF WORLD OF CIVILIZATIONS
(MIEVAL AND MODERN PERIOD)**

- 1) Understand the characteristics of the middle ages.
- 2) Learn the transition process from the middle ages to the modern age.
- 3) Know the significance of geographical discoveries.
- 4) Understand the impacts of industrial and agrarian revolutions.

5) Acquire knowledge about the developments in science and technology and comprehend the history of the world civilizations in the medieval and modern period.

**22PHISC24: INTERNATIONAL RELATIONS FROM 1945 C.E TO
2020 C.E**

- 1) Understand the concepts and theories of international relations.
- 2) Learn the impact of the Cold War and the foreign policies of the major powers.
- 3) Know the crucial issues of world politics.
- 4) Understand the Third World Movements and the contemporary relevance of Non-alignment.

Study about regional organizations and their impact on international relations

22PHISE25-1: ARCHIVES KEEPING

- 1) Know the birth of records and practice of archives keeping.
- 2) Learn the different types of preservation techniques.
- 3) Understand the rules to access the records in archives.
- 4) Study the different types of documentation procedures.
- 5) Acquire knowledge about the importance of national and state archives and administration of the archives.

22PHISE25-2: MUSEOLOGY

- 1) Understand the concept of museology and the functions of museums.
- 2) Learn the purposes and scope of museum collections.
- 3) Know the legal provisions related to museums.
- 4) Understand the museum exhibition as a communication system.

Study the museum-related organizations and the famous museums in India

**22PHISE25-3: HISTORY OF CHINA AND JAPAN 1900 C.E. TO
2000 C.E.**

- 1) Understand the political condition of China under the Manchus.
- 2) Learn the significance of Tokugawa Shogunate and the Meiji Restoration.
- 3) Know the conflicts and war between China and Japan in modern times.
- 4) Understand the role of China and Japan in the First and Second World Wars.

Study the emergence of the People's Republic of China and the New Constitution of Japan and History of the Far East in modern times

2PHUMR27: HUMAN RIGHTS

- 1) To understand the conceptual background of Human Rights.
- 2) To study international and regional norms and institutional mechanisms of Human Rights.
- 3) To know the international concern for Human Rights.
- 4) To explore the emerging issues in international human rights.

To study the Classification of Human Rights

22PHISC31: SOCIAL AND CULTURAL HISTORY OF INDIA FROM 1773 C.E. TO 1947 C.E.

- 1) Learn the intellectual Revolution of 18th century
- 2) Acquire knowledge on socio-Religious reforms
- 3) Understand the introduction of western concepts in Agriculture Industry and Education
- 4) Know the development in various spheres of Administration.

5) Study the Trade unions and Movement in India

22PHISC32: FREEDOM MOVEMENT IN TAMILNADU 1759 C.E. TO 1947 C.E

- 1) Understand the early resistance to the British Colonial expansion in Tamil Nadu.

1) Learn the pre-Congress political associations in Tamil Nadu.

2) Know the role of Moderates and Extremists of Tamil Nadu in the freedom struggle.

3) Understand the Militant nationalism and revolutionary activities in Tamil Nadu.

Acquire knowledge about the Women Freedom Fighters of Tamil Nadu and role of Tamil Nadu in the Indian independence movement

22PHISC33: MILITARY HISTORY OF ANCIENT INDIA UPTO 647 C.E.

- 1) Acquire knowledge in nature and scope of Military science.

1) To deal intelligently with problems of organizing army.

2) Know the military system of epic and Vedic age

3) Understand the military system of Mauryas

4) Realize the system of Military under Guptas

22PHISC34: HISTORIOGRAPHY AND HISTORICAL METHODS

- 1) Understand the evolution of historical methods.
- 2) Learn the relationship of history with its ancillary and other disciplines.
- 3) Know the various traditions of history writing.
- 4) Understand the various approaches to history.

Acquire knowledge about qualitative and quantitative history

22PHISE35-1: INDIAN EPIGRAPHY AND NUMISMATICS

- 1) Understand the origin and evolution of the study of epigraphy and numismatics.

1) Learn the various aspects of epigraphy and numismatics.

2) Know how the past is derived from epigraphical and numismatics evidence.

3) Understand the methods of collection and preservation of inscriptions and coins.

Acquire knowledge about the important inscriptions of India and study of Indian Numismatics

22PHISE35-2: INTELLECTUAL HISTORY OF INDIA

- 1) Know the works and contributions of the political thinkers of India.

1) Learn the role of the social and philosophical thinkers in transforming the Indian society.

2) Study the impact of influential religious thinkers of India.

3) Understand the contributions of socialist, communist and economist thinkers of India.

Acquire knowledge about the literary and feminist thinkers of India and comprehend the impacts of the ideals and principles of the intellectuals of modern India

22PHISE35-3: INDIAN ART AND ARCHITECTURE

- 1) Understand the features of Indian architecture.
- 1) Learn about the various styles of Architecture and sculpture.
- 2) Understand the contribution of Pallavas to the Art and Architecture.
- 3) Realize the architecture of Vijayanagara empire
- 4) Know the architecture of Delhi sultanate

22PHISO36-1: PRINCIPLES AND PRACTICES OF TOURISM IN INDIA

- 1) Know the historical development of tourism.
- 1) Explore the definition, meaning, nature and different types of tourism.
- 2) Understand the role of the hospitality industry in tourism development.
- 3) Understand the role of the travel agency and tourism marketing in promoting tourism.

Acquire knowledge about the associations and organizations promoting tourism

22PHISO36-2: ECONOMIC HISTORY OF CONTEMPORARY INDIA

- 1) Understand India's economic performance in the pre-Liberalization period.

- 1) Learn the implementation of the New Economic Policy and its impacts.

- 2) Know the poverty and employment issues of contemporary India.

- 3) Understand the implementation and impacts of Liberalization, Privatization and Globalisation.

Acquire knowledge about the reforms in the financial and external sector and the economic development of contemporary India

22PHISO36-3: ADMINISTRATIVE HISTORY OF INDIA

- 1) Understand the meaning and the scope of Administration.

- 1) Learn the system of administration in ancient India.

- 2) Know the structure of administration in medieval India.

- 3) Understand the administrative system under British rule in India.

Acquire knowledge about the administrative functions in free India and the origin and growth of public administration in India

22PHISC41: CONSTITUTIONAL HISTORY OF INDIA FROM 1773 C.E. TO 1950 C.E

- 1) Know the progression of British control over Indian administration.

- 1) Learn the constitutional development in India under the British East India Company.

- 2) Study the importance of the Indian Councils Act of 1861 and 1892.

- 3) Understand the significance of Minto-Morley Reforms and Montagu-Chelmsford Reforms.

Acquire knowledge about the importance of Government of India Act, 1935 and impact of Mountbatten Plan and the partition of India

22PHISC42: HISTORY OF CONTEMPORARY INDIA FROM 1900 C.E to 2020 C.E

- 1) Understand the significance of the integration of Indian States.

- 1) Learn the developments in India in the Nehru era.

- 2) Know the Indira years and the emergence of the Janata Party.

- 3) Understand the developments in India under Rajiv Gandhi.

- 4) Acquire knowledge about the National Front and the united Front coalition governments.

22PHISC43: HISTORY OF USA FROM 1900 C.E. TO 2000 C.E.

- 1) Understand the Progressive Era and the emergence USA as one of the world powers.

- 2) Learn the impact of the Great Depression and the role of the USA in the Second World War.

- 3) Know the effect of the Cold War on America.

- 4) Study the significance of the Great Society programme.

Acquire knowledge about the Post-Cold War Foreign Policy of the USA and history of the USA from 1900 CE to 2000 CE

22PHISE45-1: GENERAL STUDIES FOR COMPETITIVE EXAMINATIONS

- 1) Know the importance of geography and the physical features of India.
- 1) Learn the development of the Indian economy and its impacts.

- 2) Study the key features of Indian polity and governance.
- 3) Understand the achievements of India in the field of science and technology.

Acquire knowledge about human development in contemporary India and the essential events in contemporary India and World

22PHISE45-2: INTELLECTUAL HISTORY OF TAMILNADU

- 1) Understand the life and career of political personalities.
- 1) Learn the contributions of social reformers and philanthropists.
- 2) Know the life and works religious personalities.
- 3) Understand the contributions of cultural and literary personalities.

Acquire knowledge about the works of notable personalities in the field of science and the intellectual history of Tamil Nadu

22PHISE45-3 INDIA AND HER NEIGHBOURS

- 1) Know the relations between India and Pakistan.
- 1) Learn the strains and the process of normalisation between India and China.
- 2) Study India's relations with Bangladesh, Bhutan and Myanmar.
- 3) Understand India's relations with Sri Lanka and the Maldives.
- 4) Acquire knowledge about India's role in regional organizations and India's relation with her neighbours.

MA ECONOMICS

22PECOC11: ADVANCED MICRO ECONOMICS

- 1) Micro Economic theory forms the basic theoretical foundation of the core subject.
- The concepts, theories and diagrammatic representation are the most important tools that aid the students to understand the subject

22PECOC12 : STATISTICS FOR ECONOMICS

- 1) This subject provides some knowledge in statistical methods to the students and the scholars involved in social science research activities.
- To help the students understand and apply statistical tools for research

22PECOC13: INDIAN ECONOMIC DEVELOPMENT

- 1) Students to know the Indian Economic Development and policy issues and challenges.
- Students gain knowledge about the road map for economic development

22PECOC14: AGRICULTURAL ECONOMICS

- 1) To understand the basic Characteristics of Agriculture
- 2) To learn various Steps of Agricultural Production and Productivity.
- 3) To study the concepts and issues of recent agricultural strategy.
- 4) To study the marketing area of agriculture.

To develop a critical study on recent agricultural crisis in India

22PECOE15-1: RURAL DEVELOPMENT

- 1) To get an exposure to a new rural area and the socio-economic condition of people
- 2) To provide knowledge from ancient to modern agricultural practices

22PECOE15-2: LABOUR ECONOMICS	<p>3) To face the rural reality during the rural living and learning experience Detailed knowledge on various agri-business activities</p> <ol style="list-style-type: none"> 1) The main objective of this subject is to study the concepts and issues relating to labour. 2) Economics and industrial relations in the contemporary economic issues. <p>To understand the nature of Indian Labours and their problems and prospects</p>
22PECOE15-3: URBAN ECONOMICS	<ol style="list-style-type: none"> 1) To understand the forces underlying the process of urbanization 2) To develop students skill to examine the economic aspects or urbanization and migration 3) To clarify the problem of urbanisation 4) To provide insights into the formation of effective urban policies
22PECOO16-1: RESOURCE ECONOMICS	<ol style="list-style-type: none"> 1) To Understand the natural Resources 2) To Develop The Management Of Renewable Resources 3) To Clarify The Problem Of Resources Management Of Non-Renewable 4) To Provide Insights Bio Diversity
22PECOO16-2: ECONOMICS OF SUSTAINABLE DEVELOPMENT	<ol style="list-style-type: none"> 5) To Know The Valuation Of Environmental Resources 1) To understand the Environmental basis of economic growth 2) To develop students skill theories of Sustainable Development 3) To clarify the problem Sustainable Development and Markets 4) To provide insights into the formation of sustainability Indicators and Measurement 5) To know sustainable development policy issues
22PECOO16-3: ECONOMICS OF INFRASTRUCTURE	<ol style="list-style-type: none"> 1) To know the economics of infrastructure definitely ensures the mobility of labour and capital within the economy. 1) To understand the results in the overall growth of towns and cities. 2) To know the infrastructures provide for a lot of employment generation and employment opportunities 3) To understand also play a crucial role in national defense activities <p>Local and Global action</p>
22PECOC21: ADVANCED MACRO ECONOMICS	<ol style="list-style-type: none"> 1) To study the aggregate economic indicators and National Income Measurements. 2) To analyze the Classical, Keynesian Theory of employment and Concepts. 3) To get impress about Consumption Function analysis
22PECOC22: MATHEMATICAL ECONOMICS	<ol style="list-style-type: none"> 4) To found knowledge about Investment Function analysis To Identify the IS-LM models of General Equilibrium and Policy measures 1) To teach the students the meaning and significance of Mathematical Economics. 2) To develop in Economics skill in working out simple problems. 3) The objective of this paper is to study the basic mathematical concepts relating to economic analysis and its applications
22PECOC23 : MONETARY ECONOMICS	<ol style="list-style-type: none"> 1) Monetary economics has intensified greatly with substantial stream of evidence relating to money, Banking and Finance.

22PECOO24: ENTREPRENEURIAL DEVELOPMENT	<p>To know the various theories of supply of money, capital market, and policies</p> <ol style="list-style-type: none"> 1) To introduce the students the basic concepts of entrepreneurship. 2) To familiarize the concept of EDP and the role of govt. 3) To get an idea on Project Identification and its formulation 4) To understand the concept of Project Appraisal 5) To widen the knowledge on institutional support for the new Entrepreneurs
22PECOE25-1: HUMAN RESOURCES DEVELOPMENT	<ol style="list-style-type: none"> 1) To impart the knowledge and understanding the role of Human Resource Development 2) The selection process and various test of interviews. It is very helpful to the students to learn more knowledge about the various Bargaining system and Human Resource Development. To impart the knowledge and understanding the Human resources training
22PECOE25-2 : GENDER STUDIES	<ol style="list-style-type: none"> 1) To understand the concepts of Women Studies vs Gender studies. 2) To make the students to know the growth of Gender and Urban Sector. 3) To enable the students to study the Economic empowerment – Poverty Eradication. <p>To the students understand the Occupational pattern of women’s Employment</p>
22PECOE25-3:ECONOMICS OF CLIMATE CHANGE	<ol style="list-style-type: none"> 1) To Creating CC Information economy transmission mechanisms. 2) To Enhancing CC Knowledge Access , information sharing and economic policies for climate change Migration. 3) The objective is to enable students to understand the drivers of climate change, the methods to analyse . 4) The students understand the local and Global Action of CC.
22PELDC26: FIELD STUDY CSSR/FILED VISIT	<ol style="list-style-type: none"> 1) To understand the field Study and CSRR (College Social Responsibility Report) 2) The aim of the Field Study is to help students connect with the society in the respective discipline. 3) To know the important features of the Field Study and the CSRR:
22PHUMR27: HUMAN RIGHTS	<ol style="list-style-type: none"> 1) To know the rights of all Human Beings. 2) The role of UN and multi nation in protecting and promoting awareness of Human Rights 3) To compare the development of regional protection of Human Rights 4) The Indian perspective of protection of Human Rights under the Constitution of India <p>To mind the human redressal mechanisms of human rights and practiced in India.</p>
22PECOC31: PUBLIC ECONOMICS	<ol style="list-style-type: none"> 1) The learning objectives of this paper is to impart to the students to have sound understanding of the role and functions of the Government in a modern economy 2) To introduce the students the nature and theories of public goods. 3) To familiarize the students with the various aspects of the theory of public choice. 4) To make the students aware of the recent trends in taxations and budgetary policy
22PECOC32: INTERNATIONAL ECONOMICS	<ol style="list-style-type: none"> 1) To help the students to understand the basic theories on international trade. 2) To help the students to understand the modern theories of international trade.

	3) To help the students to understand about the balance of payments and international trade.
	4) To help the students to understand the aid and MNC on foreign trade.
	To help the students to understand the managing the risks on international trade
	The objective of the papers intends to provide knowledge to the students on the basic issues as productivity, efficiency, capacity utilization and debate involved in industrial development
22PECOC33: INDUSTRIAL ECONOMICS	1) To make the students to understand basic concepts of research.
22PECOC34: RESEARCH METHODOLOGY	To train the students with different methods of research in social sciences
	1) Understand the nature ,scope, importance, characteristics of marketing
22PECOE35-1: MARKETING MANAGEMENT	1) To impart knowledge and understandingthe marketing planning& market segmentation
	2) It is very helpful to the students to learn more knowledge of marketing services
	To achieve knowledge about the size, composition, organization and distribution of the population. To study the trend of population growth which describes the past evolution present distribution and future changes in the population of an area. To know the Population Structure and Characteristics.. etc.
22PECOE35-2: POPULATION STUDIES / DEMOGRAPHY	1) To Understand relevance of economics in Managerial economics
22PECOE35-3: MANAGERIAL ECONOMICS	1) To study the functional areas of Management
	To practice the price determination and implication of good investment, Decision making
22PECOO36-1: FINANCIAL ECONOMICS	1) The study the nature and functions of Financial economics
	2) The subject analyses indebt about the working and functions of Commercial Bank and Reserve Bank of India.
	3) To understand the functions and structure of Money market and Capital market.
	4) To explore the structure and financial position of Non – Banking Financial Companies.
	5) It helps to analysis the scope of International financial market
22PECOO36-2: ECONOMICS OF SOCIAL ISSUES	1) To enable them to study & analyses the issues related to Environment and Health Care.
	1) To understand the Economics of family
	2) To critically analyse the issues of poverty and inequality
	3) To analyses critically the Economics of Social evils
	4) To identify the factors that promote educations
22PECOO36-3: REGIONAL ECONOMICS	1) To understand the problems and Cause of Economics
	1) To introduce the regional economic theories I &II
	2) To make the students aware of the recent trend in regional planning
22PECOC41: DEVELOPMENT ECONOMICS	1) To understand the concepts of economic Growth & Development.
	2) To make the students to know the growth & development indicators.
	To enable the students to study the different growth models
22PECOC42: HEALTH ECONOMICS	1) To teach the students the need of health economics in the present environment.
	To teach the importance of health and the economic value of human capital

22PECOC43: ENVIRONMENTAL ECONOMICS

1) To let students learn linkages between Economy and Environment

- 1) To create awareness an externalities
- 2) To analyses various natural resources and Sustainable Developments.
- 3) To make students learn the methods of valuation of Natural resources.
- 4) To highlight current environment issues in India

To gain an understanding of core economic principle and how they apply to a wide range of real- world issues. To master the theoretical and applied tools necessary to critique and create economic research. To become familiar with salient developments in the world economy, in present – day and historical contexts

22PECOD44: PROJECT/ DISSERTATION WITH VIVA-VOICE EXAMINATION

The objectives of this theory attempts to provide the rationale behind public decisions. This involves the participation of the general public, elected officials, political committees, along with the bureaucracy that is set up by society. The students to know the various economic thought of Laureates

22PECOE45-1: ECONOMIC THOUGHT OF NOBLE LAUREATES

22PECOE45-2: REGIONAL ECONOMICS

- 1) To understand the problems and Cause of Economics
- 1) To introduce the regional economic theories I &II
- 2) To make the students aware of the recent trend in regional planning

22PECOE45-3: RECENT ISSUES IN INDIAN ECONOMY

- 1) To develop an awareness of the basic issues and problems of the Indian economy
- 2) To understand the technological advancement in Agriculture
- 3) o have better understanding of the economics problems in India
- 4) To have an updated information about Economic Reforms
- 5) To keep the student updated with the reforms in industrial sector

M.A. POLITICAL SCIENCE

22PPOLC11: POLITICAL THEORY

- 1) This course discusses the concepts, ideas and theories both historically and analytically.
 - 2) This course encourages the students to learn the organizations and functions of the state.
 - 3) This course will enlighten the students to learn about the major Political Ideals such as Rights, Liberty, Equality Law and Justice.
 - 4) This course will promote the Political Ideals like Civil Society, Democratic Participation and Political Obligation to the students.
- Finally, it will mitigate the better understanding of various Political Ideologies like Marxism, Liberalism, Socialism and Gandhism

22PPOLC12: WESTERN POLITICAL THINKERS

- 1) To enable the students to understand the growth and diverse areas of the Western Political Thought.
- 2) To study the Ancient and Medieval Western Political Thought and also classical thinkers and their contributions to Political Science.
- 3) To understand the Modern Political Thought with the help of the great political thinkers and their perspective of theoretical solution to the Modern Political Thought.
- 4) To evaluate Neo–Liberalist Thinkers in detail.
- 5) To focuses on the concept of Rationalism and Conservatism and also concentrates on deconstruction and reconstruction of modernity.

22PPLOC13: CONSTITUTIONAL DEVELOPMENT AND INDIAN NATIONAL MOVEMENT

- 6) To identify paradigm on Civil Liberty and Human Rights.
- 1) To understand about Colonialism and Imperialism
- 2) To know the impact of British rule in India
- 3) To analyze the Freedom struggle by Indian leaders
- 4) To learn about different movements of pre-Independent India

To examine the First War of Indian Independence (1857)

22PPOLC14: THEORIES AND PRACTICES OF PUBLIC ADMINISTRATION

- 1) To Study the elements of Public Administration.
- 2) To understands the Theories of Organization.
- 3) To teach principles of management system in Public Administration.
- 4) To Promote understanding of the political, social, legal, and economic environments in which public organizations operate

To Provide understanding of, and insight into, the nature of the administrative process and bureaucratic behavior, leadership, and decision making

22PPOLE15-1: FEDERALISM: THEORY AND PRACTICE

- 1) To understand the nature of federalism in India.
- 2) To identify the concepts that influence the dynamics of federalism.
- 3) To understand the concepts and their historical development.
- 4) The major issues of federalism known.
- 5) To understand the center -state relations

22PPOLE15-2: POLICE ADMINISTRATION

- 1) To understand nature of Police administration in India.
- 2) To study about the Duties-Responsibilities of police.
- 3) To understand the Concepts related to Armed Police.
- 4) To explain the Police Organisation at the State level

To study about the Police Public Relations

22PPOLE15-3: ETHICS AND POLITICS

- 1) To understand the moral values
- 2) To refers to the ideas of scholars on ethics
- 3) To understand the individual rights.
- 4) To explain the Relation between Politics and ethics

To study about the Ethical values in discharging the duties

22PPOLO16-1: INTERNATIONAL ORGANISATIONS

- 1) To impart basic concepts of international politics.
- 2) To broaden the vision in the area of Organization
- 3) To acquire knowledge in the area of international affairs
- 4) To know about regional organizations.
- 5) To explain the Evolution of International Organizations
- 6) To study about the World Organizations

22PPOLO16-2: NATIONAL SECURITY IN INDIA

- 1) To educate about basic concepts of international politics
- 2) To apprise about modern and as well as the traces of past happenings
- 3) To study the major issues of World War I
- 4) To study the major issues of World War II
- 5) To evaluate the impact of refugees and terrorism in the international arena.

22PPOLO16-3: POLITICAL SOCIOLOGY

- 1) To explain various approaches of the study of political sociology.
- 2) To acquaint students with the major concepts of political sociology.
- 3) To help students gain and insights and process of social changes in India.

22PPOLC21: CONTEMPORARY POLITICAL SYSTEMS

4) To impart the knowledge of social-political and economic context of political process.

To make students aware of difference between political and non-political systems

1) This course aims to trace the evolution of Contemporary Political Systems

2) To understand the working of various Constitutions of the countries

3) The course critically looks at the rights of the citizens of UK, USA.

4) This course exhibits the features of a liberal democratic and socialist political system with focus on UK, USA and the People's Republic of China

To discuss the concept of Judiciary and Rule of Law

1) To learn about the British legacy in India

2) To understand evolution of Indian Constitution

3) To grasp the knowledge of Union Government

4) This course exhibits the features of a Constituent

Assembly:

5) To discuss the significance and working of various constitutional bodies

22PPOLC23: GOVERNMENT AND POLITICS IN TAMIL NADU SINCE 1900

1) To understand the Tamil Nadu State Political framework and its problems.

2) To know about the role of Caste, Languages in state politics.

3) To evaluate the role played by the political parties in liberating the people from the clutches of cynicism

4) To know the need for the participation of people in the Panchayati Raj institutions

This course also exposes about the river water disputes and alternatives to solve the issue

1) The course will introduce students the role, processes, and political context of the Legislative Branch in state government.

22PPOLC24: LEGISLATIVE PROCEDURES

2) To make to understand about the law-making procedures

3) To acquaint with the stages of the law-making

4) To educate about the role of electoral system in strengthening the participatory democracy

5) To illuminate the students on the parliamentary procedures in the meetings which are carried out in a fair, orderly, and expeditious manner.

6) To shed light on the parliamentary etiquette and privileges in view of the fact that it provides legal immunity for the members.

22PPOLE25-1: INTERNATIONAL RELATIONS

1) To educate about basic concepts of international politics

2) To apprise about modern and as well as the traces of past relations between countries

3) To study the major issues that emerged after first world war.

4) To know significance of theories in international politics
Teach about major issues which dominated the international politics

22PPOLE25-2: PEACE AND CONFLICT RESOLUTION

1) To refers to the political economic and sociological dimensions of conflict.

2) To understand the Intellectual Foundations of Peace Science

3) To explains the theories of conflict

4) To explain about Political, Economic and Sociological dimensions of resolving the conflicts

5) To discuss the Hinduism, Buddhism, Christianity and Islam for the promotion of peace

- 1) To study the Sri Lankan Constitution
- 2) The explains the parliamentary system in Bhutan.
- 3) To know about the Nepal's Constitutions
- 4) To study the major issues of Historical Development of the Constitution.
- 5) To explain the Civil and Military Relations

22PPOLE25-3: POLITICAL SYSTEMS IN SOUTH ASIA

- 1) It focuses on the basic principles of Indian Constitution such as the Preamble, Rights and Duties, Citizen and Political Institution.

22PPOLC31: INDIAN GOVERNMENT AND POLITICS

- 2) It concentrates in detail about the organization of development at center, state and local level Government.

- 3) It ponders over the role of statutory Institutions in promoting and securing the welfare of the stakeholders.
- 4) It also projects the pivotal role of political parties in the coalition government.
- 5) To explores the Fundamental Rights.

This course also expose about the Local Government

22PPOLC32: DYNAMICS OF INDIAN FOREIGN POLICY

- 1) To be acquaint with basic features of India's Foreign policy
- 1) To know about India's relations with its neighbors
- 2) To ponder over the relations with super powers
- 3) To has comprehensive understanding about Security and National Interests.
- 4) To explore the Domestic and International determinants of India's Foreign Policy

This course also expose about the Principles and Objectives of India's Foreign Policy

- 1) To orient the students about the objectives and growth of modern political analysis.

22PPOLC33: MODERN POLITICAL ANALYSIS

- 1) To educate the students about importance of political sociology and political economy in analyzing the political situation.
- 2) To familiarize about the new processes, approaches and strategies that guide the students in studying political phenomena
- 3) To Create awareness among students about Nationalism and State building processes
- 4) To know about the Approaches and methods to study the discipline through Political realism, Pluralism and Worlds system's Model

22PPOLC34: LOCAL GOVERNMENTS IN INDIA (RURAL AND URBAN)

- 1) To be apprised about the functioning of local government
- 1) To understand significance rural development
- 2) To compare and contrast the features of local government and other forms of governance.
- 3) To create awareness among students about theories of local government
- 4) To know about the agencies since independence

- 1) This course intends to imparts a comprehensive nature of Indian Constitution

22PPOLE35-1: DYNAMICS OF INDIAN DEMOCRACY

- 1) It focuses on the basic principles of Indian Constitution such as the Preamble
- 2) To know about the Rights and Duties, Citizen and Political Institution.

- 3) It concentrates in detail about the organization of Government at center, state and local level.

This course highlights few amendment procedures and law-making process in India.

22PPOLE35-2: POLITICAL ECONOMY

- 1) To discuss about the scope of Indian economy
- 2) To discuss about the mixed economy
- 3) To understand the black money

22PPOLE35-3: INDIA IN WORLD AFFAIRS	<ul style="list-style-type: none"> 4) To study the major issues of Structure of Indian Economy 5) To explain the importance planning in India 1) To orient the Students about the Evolution of International Politics 2) To profess the theories involved in studying International Politics 3) To imparts the idea about how Balance of Power is maintained. 4) To explain the Major Powers of the World and its evolution history 5) To give a realistic feel of the major crisis that had happened so far
22PPOLO36-1: POLITICAL LEADERSHIP	<ul style="list-style-type: none"> 1) To discuss the Characteristics leadership 2) To discuss the quality of leader 3) To explain the Principles and Types of Leadership 4) To study about the Democratic Leadership 5) To explain the various types of leadership in India
22PPOLO36-2: ASIAN POLITICAL SYSTEM	<ul style="list-style-type: none"> 1) Understand Colonialism and Nationalism
22PPOLO36-3: ELECTORAL POLITICS IN INDIA	<ul style="list-style-type: none"> 1) Discuss the Regional Political Parties- Pressure Groups 2) Explain the Local Government- Political Parties 3) To explain the Election Commission 4) To study about the Regional Political Parties 1) To know about the Electoral System in India 2) To identify with the Electoral Politics in Indian democratic exercise.
22PPOLC41: INDIAN POLITICAL THOUGHT (CLASSICAL AND MODERN)	<ul style="list-style-type: none"> 3) To calculate the electoral process from since independence to current trends of General Election in India 4) To examine the Communalism in Indian Politics and to know the significance of voting behavior 5) To understand the Coalition Politics in India 1) This course will be tracing the evolution of Indian political thought from Ancient India to Modern India. 2) Tomakebroadunderstandingabout Indian Political Thinkers 3) ToappriseaboutideasandideologiesofgreatthinkersofAncientand Early Modern Political Thinkers 4) This course will be analyzing the Gandhian Movements such as the Khilafat, Sarvodaya, Grama Swaraj, Non-Cooperation, Civil Disobedience movements. 5) To know about the Features of Ancient Indian Political Thought
22PPOLC42: CONTEMPORARY POLITICAL IDEOLOGIES	<ul style="list-style-type: none"> 1) This course will be tracing the evolution of political Ideology. 1) To make broad understanding about thinkers 2) To know about ideologies of great thinkers of Ancient and Early.
22PPOLC43 RESEARCH METHODOLOGY	<ul style="list-style-type: none"> 3) This course will be analyzing the Evolution and Principles To know about the Theory of Alienation 1) To introduce the students in a simple way to the nature of scientific method. 1) To gathering knowledge about the methods and process of social science research. 2) To acquire information regarding research design and types of research. 3) To know how the relevant data can be collected and processed. <p>The students to be fairly confident to understanding and executing small and simple research projects</p>

	22PPOLE45-1: INDIAN ADMINISTRATIVE SYSTEM	<ol style="list-style-type: none"> 1) To know The Legacy of British Rule and Administration in India. 2) To understand Salient features of Indian Constitution. 3) To discuss the union government in India. 4) To explain the Mughal Administration. <p>To study about the commissions in India</p>
	22PPOLE45-2: DEVELOPMENT ADMINISTRATION	<ol style="list-style-type: none"> 1) This course envisages evolutionary change of Public Administration <ol style="list-style-type: none"> 1) It will impact the knowledge about bureaucracy and its development 2) This course will enhance the concepts like Liberalization, Privatization and Globalization in development Administration. 3) To explain the Administration of development activities- 4) To study about the problems of developing nations. 1) To understand about the basics of e-governance
	22PPOLE45-3: E – GOVERNANCE	<ol style="list-style-type: none"> 1) To learn about the implementation of e-governance 2) To investigate the issues related with the process of implementation 3) To discuss the Growth and Development of E-Governance <p>To examine the Electronic Communication technology In Administration</p>
M.COM.	22PCOMC11: STRATEGIC FINANCIAL MANAGEMENT	<ol style="list-style-type: none"> 1) To have the understanding of the functions of finance management 2) To expand the awareness of long term sources of funds. 3) To facilitate the students to the understanding of capital structure and leverage 4) To bring subject knowledge about capital investment decision among the students. 5) To let students to be acquainted with the subject of working capital management.
	22PCOMC12: MANAGERIAL ECONOMICS	<ol style="list-style-type: none"> 1) To enable the students to know the scope and application of managerial economics. 2) To knowledge the students to know the managerial use of production function. 3) To study about a different marketing structures. 4) To know about profit planning and forecasting. <p>To study on business cycle and policies</p>
	22PCOMC13: ADVANCED BUSINESS STATISTICS	<ol style="list-style-type: none"> 1) To enhance the students to know about multiple correlation and multiple regression. 2) To extend the knowledge of technique of probability. 3) To facilitate the students to have the deep knowledge on sampling methods, proportions-large and small samples- Z test and T test. 4) To bring the students to get information about chi square test. <p>To know about F-Test and ANOVA</p>
	22PCOMC14: MERCHANT BANKING AND FINANCIAL SERVICES	<ol style="list-style-type: none"> 1) Understand the modes of issuing securities 2) Acquire financial evaluation technique of leasing and hire purchase

<p>22PCOME15-1: ORGANISATIONAL BEHAVIOUR</p>	<p>1) To make the students to understand and the need and importance of Organizational Behavior. 2) To impart the students to gain expert knowledge about the application of organizational conflict technique to resolve problems in an organization. 3) To make an awareness among students about the implication of organizational changes and its effectiveness</p>
<p>22PCOME15-2: HUMAN RESOURCE MANAGEMENT</p>	<p>1) To enable the students to have a thorough understanding of changing role of HRM in global and Indian perspective. 2) To disseminate the students about various methods of recruitment, training and performance appraisal techniques.</p>
<p>22PCOME15-3: BANKING AND INSURANCE</p>	<p>To impart the students to gain expert knowledge of various theories of motivation and human resource audit 1) To impart the students to have a deep knowledge in the functioning of commercial banks. 2) To make the students to comprehend the general principles of contract of insurance and other forms of insurance. To impart the students to master over the provisions of banking instruments</p>
<p>22PCOMO16-2: STOCK MARKET INVESTING</p>	<p>1) To enable the students to know the investing and investment environment. 1) To enable the students to know the Indian securities market. 2) To study on analysis of international and domestic economics. 3) To know about the trading rules.</p>
<p>22PCOMO16-3: SERVICES MARKETING</p>	<p>To know about the investing in mutual funds On completion of the course the students can able to understand and gain the knowledge on services marketing and its concept and its various services</p>
<p>22PCOMC21: ACCOUNTING FOR MANAGERS</p>	<p>1) To understand the basic principles and concepts in accounting 2) To draft the final accounts as per accounting standards 3) To acquire knowledge in Rectification of errors and Bank Reconciliation statement 4) To analyse the financial statements like ratios and funds flow statements</p>
<p>22PCOMC22: INCOME TAX LAW AND PRACTICE</p>	<p>To enable students to learn the elements of cost To get the students to acquaint with knowledge on the provisions of Income Tax Regulations in India 1) To educate the students on computation of income from various sources</p>
<p>22PCOMC23: SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT</p>	<p>2) To impart knowledge to the students to file tax returns 1) To enable the students to know the meaning and types of security analysis & portfolio management. 2) To make the students to understand the meaning and features of hire purchase. 3) To develop Knowledge about mutual funds. 4) To Knowledge the students to know the meaning and features of venture capital.</p>
<p>22PCOMC24: DIGITAL BANKING</p>	<p>To enhance the students to know about the significance and types of Factoring 1) To enable the students to know the banking legislation in India. 2) To study the changing scenario of Indian banking system. 3) To know about the bank deposits, loans and advances.</p>

	4) To study on demonetization and remonetization. To study on payment system and digital banking
22PCOME25-1: MANAGEMENT INFORMATION SYSTEM	<ol style="list-style-type: none"> 1) To study about information system and business model. 2) To know about modern information system. 3) To study the functional area of information system. 4) To enable the students to know testing security and risk of information system. <p>To know about software engineering qualities To facilitates the students to understand the process of CRM, implementation of CRM strategies and customisation of services</p>
22PCOME25-2: CUSTOMER RELATIONSHIP MANAGEMENT	
22PCOME25-3: BUSINESS ENVIRONMENT	<ol style="list-style-type: none"> 1) To understand the concepts of Business Environment. 2) To identify the Social Responsibility of Business to different stakeholders 3) To understand How Economic Environment in Industrial Development Policies - Industrial policy, Fiscal policy, Monetary policy, Economic Reforms in India 4) To understand the Socio-Cultural Environment. To familiarize with the Technological Environment and Modernisation of Technology
22PHUMR27: HUMAN RIGHTS	<ol style="list-style-type: none"> 1) To know the rights of all Human Beings. 2) The role of UN and multi nation in protecting and promoting awareness of Human Rights 3) To compare the development of regional protection of Human Rights 4) The Indian perspective of protection of Human Rights under the Constitution of India 5) To mind the human redressal mechanisms of human rights and practiced in India.
22PCOMC31: ADVANCED CORPORATE ACCOUNTING	<ol style="list-style-type: none"> 1) To provide theoretical knowledge of International Financial Reporting Standards 2) To make the students solve the problems in Holding company accounts in various accounting contexts 3) To make the students acquire knowledge on accounting treatments with respect to merger and reconstruction situations 4) To enable the students to gain knowledge on preparation of Liquidation accounts. To enable the students to gain knowledge on preparation of Human Resource Accounting.
22PCOMC32: GOODS AND SERVICES TAX	<ol style="list-style-type: none"> 1) To enable the students to understand the basic concept of indirect tax. 1) To provide the students basic knowledge of provisions of GST. 2) To educate the students with registration process, returns and payment procedure of GST. 3) To study on input tax credit. To understand and apply the e-filing of GST in practice
22PCOMC33: RESEARCH METHODOLOGY	<ol style="list-style-type: none"> 1) To enhance the abilities of learners to undertake research in business and social sciences. 1) To enable the learners to understand, develop and apply the fundamental skills in formulating research problems 2) To enable the learners in understanding and developing the most appropriate methodology for their research. 3) To make the learners familiar with the basic statistical tools and techniques applicable for research. 4) To impart the best practice of report writing

22PCOMC34: FINANCIAL MARKETS AND INSTITUTIONS	<p>1) Understand the concepts of investment in securities and types of risk.</p> <p>1) To know the recent developments Banks</p> <p>2) To study the international financial institutions.</p> <p>3) To study the investment institutions in India.</p> <p>To know the process of financial markets</p>
22PCOME35-1: CAPITAL MARKETS	<p>1) To expose the students to the world of financial markets</p> <p>1) To create general awareness about new issue market.</p> <p>2) To enable the students to learn the working mechanism of stock exchanges</p> <p>3) To impart special knowledge about venture capital</p> <p>To teach the nuances of venture Factoring services</p>
22PCOME35-2: FINANCIAL DERIVATIVES	<p>1) To enable the students to know the digital derivatives.</p> <p>1) To study the future and forward market.</p> <p>2) To enable the students to understand options.</p> <p>3) To make the students to acquire knowledge about commodity market.</p> <p>To enable the students to understand swaps</p>
22PCOME35-3: BUSINESS ANALYTICS	<p>1) To enable the students to understand the role of business analytics in business data processing</p> <p>1) To educate the students about application of information technology in the core business Process.</p> <p>2) To enable the students to understand OLTP and OLAP.</p> <p>3) To educate the learners to understand the data integration.</p> <p>To equip the students with Performance and Measurement System Terminology</p>
22PCOMO36-1: BUSINESS COMMUNICATION AND REPORTING	<p>1) To Enable the student to understand the concept of communication</p> <p>2) To teach the students for the Channels and Objectives of Communication</p> <p>3) To understand the modes of communication</p> <p>4) To gain knowledge in Problems of Communication</p> <p>5) To Educate the students on preparing reports</p>
22PCOMO36-2: SECRETARIAL PRACTICE	<p>1) To enable the students to understand the rights, duties and responsibilities of Company Secretaries</p> <p>1) To teach the students how the companies are formed</p> <p>2) To educate the students how the company is registered and what are the documents prepared</p> <p>3) To teach the students how the meetings are conducted</p> <p>4) To educate the students how the notices are drafted</p>
22PCOMO36-3: PROJECT FINANCE AND MANAGEMENT	<p>1) To enable the students to understand the need for innovative projects</p> <p>1) To make the students to gain knowledge on Project feasibility study</p> <p>2) To make the students to gain knowledge on Network Analysis of PERT and CPM methods</p> <p>3) To gain expert knowledge on monitoring of cost control</p> <p>4) To gain expert knowledge on evaluate the project performance</p>
22PCOMC41: APPLIED COSTING	<p>1) To provide an in-depth insight in students about techniques of Cost ascertainment in manufacturing sectors.</p> <p>1) To provide an in-depth insight in students about techniques of Cost ascertainment in service sectors.</p> <p>2) To make the students familiar with the specific costing methods used by various industries.</p>

	<ul style="list-style-type: none"> 3) To transmit to students knowledge of preparing on Process costing and Activity Based Costing
22PCOMC42: INSURANCE AND RISK MANAGEMENT	<p>To familiarise the students with Cost Management techniques</p> <ul style="list-style-type: none"> 1) To study on insurance functions and principles. 1) To know about insurance contract and general contract. 2) To enable the students to know marine insurance and fire insurance. 3) To knowledge about transport and motor insurance. <p>To study about risk management</p>
22PCOMC43: BUSINESS ETHICS AND CORPORATE GOVERNANCE	<ul style="list-style-type: none"> 1) To teach business values, its role and importance. 1) To Instruct types of ethics, Internal and external ethics. 2) To teach the Corporate Social Responsibility and Consumer Protection 3) To enable the students to face the success situation <p>Understand the concept</p> <ul style="list-style-type: none"> 1) To enable the students to gain practical exposure to functioning of various types of business institutions 1) To equip the students with the skills of organizing and operating the business applying relevant business models 2) To impart the students in the industrial concerns or institutions of their choice and facilitate them to gain hands on experience in practical setting and strengthening their conceptual knowledge 3) To gain knowledge on working performance of the Business institutions 4) To provide the students an exposure to prepare the various project reports
22PCOMD44: CORE PROJECT	<ul style="list-style-type: none"> 1) To educate the students to understand the various provisions of Companies Act 2013. 1) To comprehend the various provisions of Industries (Development and Regulation) Act 1951 2) To understand the various provisions of Foreign Exchange Management Act 1999. 3) To educate the students to understand the various provisions of Essential Commodities Act 1955 4) To impart the students about the basic concepts of Water (Prevention and Control of Pollution) Act, 1974
22PCOME45-1: CONTEMPORARY LEGAL FRAME WORK	<ul style="list-style-type: none"> 1) To impart the students about the basic concepts of international finance 1) To enable the students to gain knowledge on international financial Institutions and its Functions 2) To enable the students to understand the regional financial institutions. 3) To make the students to comprehend the foreign exchange dealings by commercial banks and RBI 4) To educate the students to understand and compute the exchange rates
22PCOME45-2: INTERNATIONAL FINANCE AND FOREIGN EXCHANGE	<ul style="list-style-type: none"> 1) To sensitize the students to various retail marketing. 1) To enable the students to comprehend the global trends in retailing. 2) To educate the student to understand the retail formats. 3) To provide knowledge on merchandise management <p>To acquaint the students with strategies of retail shop management</p>
22PCOME45-3: RETAIL MANAGEMENT	

- 22PMSWC11: HISTORY AND PHILOSOPHY OF SOCIAL WORK**
- 1) To gain an understanding about social work and related concepts.
 - 2) To provide information about evolution of social work in the West and in India.
 - 3) To recognize the need and importance of social work education and training.
 - 4) To understand various models of professional practices and its applications.
- To gain an insight into personality requirements and code of ethics
- 22PMSWC12: SOCIAL WORK PRACTICE WITH INDIVIDUALS**
- 1) To understand Social Case Work as a method of Social Work and develop skills in Social Work practice.
 - 2) To comprehend theory and models and apply them in direct practice with individuals.
 - 3) To become aware of the scope of using the methods in various settings.
 - 4) To understand case worker and client relationship during working with individuals.
- To practice theoretical knowledge of working with individuals
- 22PMSWC13: SOCIAL WORK PRACTICE WITH GROUPS**
- 1) To understand group work as a method of social work
 - 2) To understand values and principles of working with groups.
 - 3) To develop the ability to critically analyse problems of groups and factors affecting them.
 - 4) To enhance understanding of the basic concepts, tools and techniques in working with groups in problem solving and in developmental work.
 - 5) To develop appropriate skills and attitudes to work with groups.
- 22PMSWP14: CONCURRENT FIELD WORK - I**
- 1) To sensitive the students to social needs and problems of community as well in society.
 - 2) To critically analyze problems and select the appropriate means of problem solving.
 - 3) To understand and apply the social work methods to observing organization working in the field
 - 4) To begin to acquire skills of social work intervention in human needs situations and issues.
 - 5) To understand of street theater importance in relation to social work.
- 22PMSWE15-1: SOCIOLOGY FOR SOCIAL WORK PRACTICE**
- 1) To gain knowledge about the society and its dynamism.
 - 2) To understand the socialization process and its agents.
 - 3) To understand the process of social change.
 - 4) To gain knowledge about various social movements in India.
 - 5) To realize various social problems existing in the society.
- 22PMSWE15-2: GENDER AND DEVELOPMENT**
- 1) To provide the students an overview of the problems of women.
 - 2) To appreciate the various welfare measures of Indian women.
 - 3) To provide special focus on violence against women.
 - 4) To understand gender rights and legislation related to women.
 - 5) To gain knowledge of social work relevance to gender development .
- 22PMSWE15-3: CHILD WELFARE AND SOCIAL WORK**
- 1) To enable students to work in the different field based legislations related to children.
 - 2) To equip them with the knowledge on welfare services of children.

	<p>3) To make them to understand basic theoretical knowledge on child welfare concepts and Institution working for child Welfare.</p> <p>4) To gain knowledge of Internationals and National instruments to promote and protect rights of children. To understand Role of Social Worker in Different Setting of child welfare</p>
22PMSWO16-1: HUMAN GROWTH AND DEVELOPMENT	<p>1) To provide the students an overview of the human growth and development.</p> <p>2) To appreciate the learning and motivational factors of individuals</p> <p>3) To understand adjustment and concept of health.</p> <p>4) To enable students to shape their perception and attitude.</p> <p>5) To gain knowledge of factor influence of personality</p>
22PMSWO16-2: MARRIAGE AND FAMILY LIFE EDUCATION	<p>1) To establish a meaningful understanding of family life, marriage and responsible Parenthood.</p> <p>1) To help the students to acquire the skills necessary to develop and maintain satisfying and stable relationship.</p> <p>2) To gain knowledge on the services available for the welfare of the family.</p> <p>3) To understand of sex education to shape good citizen in country.</p>
22PMSWO16-3: ENVIRONMENTAL SOCIAL WORK	<p>To explore knowledge in factor contributing family organization</p> <p>1) To learn basic facts about Ecology, Environment and Energy resources.</p> <p>2) To create environmental consciousness and various movements.</p> <p>3) To gain knowledge on various issues on Environment and the roles of Movements for the Environment Protection.</p> <p>4) To become aware of the various environment protection laws and role of social workers.</p> <p>To understand the roles and responsibilities of NGO's in environment protection</p>
22PMSWC21: SOCIAL WORK WITH COMMUNITIES AND SOCIAL ACTION	<p>1) To understand the different aspects of a community, its functions, and problems.</p> <p>2) To understand the critical elements of community organisation process.</p> <p>3) To enhance the critical understanding of models and strategies for CO.</p> <p>4) To develop attitudes conducive to participatory activities for a civil society.</p> <p>To gain knowledge on the various techniques and skills of community organisation & social action and to develop the basic skills to apply for those in the community</p>
22PMSWC22: SOCIAL WORK RESEARCH AND STATISTICS	<p>1) To understand the nature, principles and methods of Social Work Research.</p> <p>2) To develop the skills of independently conceptualizing a problem and executing a research study.</p> <p>3) To understand of conceptual frame work of method of data collection and interpretation of data.</p> <p>4) To get knowledge of systematic process of conducting research study.</p> <p>To understand and learn the application of appropriate statistical techniques in Social Work Research</p>
22PMSWC23: SOCIAL WELFARE ADMINISTRATION AND PROJECT MANAGEMENT	<p>1) To acquire Knowledge of the basic process of administration.</p> <p>2) To develop skills to participate positively in administrative process.</p>

- 3) To gain knowledge of policies in India and planning process in India.
- 4) To understand welfare administration process and gain essential skills.

22PMSWP24: CONCURRENT FIELD WORK - II

To acquire the skill of establishing a human service organization

- 1) Train students to practice social work from an ecological, developmental and integral perspective.
- 2) Develop skills for problem solving in social work at the micro level and bring change at the macro level.
- 3) Provide concurrent opportunity for the integration of class-room learning and field practicum.
- 4) Develop professional values and commitment and the professional ideal.

Develop skills to effectively use the integrated approach to problem solving and enhance skills of intervention at the micro and the macro levels of system

22PMSWE25-1: PSYCHOLOGY FOR SOCIAL WORK PRACTICE

- 1) To develop an in-depth understanding on the concepts of psychology.
- 2) To understand the life span of individuals.
- 3) To gain insight on various factors contributing for the personality of an individual.
- 4) To understand theories of development .

To facilitate the integration of above knowledge with social work practice

22PMSWE25-2: SOCIAL ENTREPRENEURSHIP AND SUSTAINABLE DEVELOPMENT

- 1) To develop an in-depth understanding on the concepts of entrepreneurship.
- 2) To understand social entrepreneurship and sustainable development.
- 3) To gain insight on various expert contributing for the social entrepreneurship.

- 4) To understand strategies for social entrepreneurship.

22PMSWE25-3: SOCIAL WORK PRACTICE AND PERSONS WITH DISABILITY

To facilitate the social marketing relevant to social work practice

- 1) To Identify and critically discuss about the person with disability.
- 2) To Understanding the legal rights related to disability.
- 3) To develop understanding of the needs and problems of persons with disability.
- 4) To understand policies, programmes and services available to persons with disability.
- 5) To provide opportunities for social work intervention to the persons with persons.

22PHUMR27: HUMAN RIGHTS

- 1) To understands the conceptual background of Human Rights.
- 2) To study international and regional norms and institutional mechanisms of Human Rights.

- 3) To know the international concern for Human Rights.
- 4) To explores the emerging issues in international human rights.

- 5) To study the Classification of Human Rights.

SUMMER PLACEMENT

- 1) To gain experience in a social work field by being in an open or closed setting .
- 2) To understand the techniques and approaches adopted by the organization.

- 3) To apply the knowledge gained, in the field of social work .

After the second semester examination and during the summer vacation students can opt for field placement training (summer placement) for one month (minimum 24 days) in the field placement agency training preferably in their respective field of specialization. For the successful completion of this training the department may authenticate the certificate if the students submit the activity sheet, attendance certificate from the agency and the report. This summer placement is mandatory and it carries no internal marks or external marks or credits

22PMSWC31-1: HUMAN RESOURCE MANAGEMENT AND DEVELOPMENT (HRM)

- 1) To enable the students to understand the concepts and functions of Human Resource Management.
- 2) To familiarize with the sub systems of Human Resource Management.
- 3) To develop the skills and attitudes required of a successful Human Resource professional.
- 4) To understand the programmes and activities of management of human resources
- 5) To acquire the skills of working with recent trends and human resource development

22PMSWC31-2: PSYCHIATRIC SOCIAL WORK (PSW)

- 1) To understand the concepts and historical development of the field of Psychiatry
- 2) To gain knowledge about various assessment methods
- 3) To gain knowledge on the various psychiatric disorders
- 4) To gain knowledge on behavioural and emotional disorders
- 5) The acquire skill in understanding the challenges of Psychiatric Social Work practice in various settings

22PMSWC31-3: RURAL AND TRIBAL COMMUNITY DEVELOPMENT (R&TCD)

- 1) To understand the Meaning and Problems of Rural Community.
 - 1) To learn the history, philosophy, principles, objectives of Rural Community
 - 2) Development and to appreciate the Role of various Stakeholders in Rural Development
 - 3) To inculcate the Social Work Skills for Rural Community Development
- To understand of tribe community and its problems

22PMSWC32-1: LABOUR LEGISLATIONS AND LABOUR WELFARE (LL&LW)

- 1) To highlight the issue of labour welfare.
- 2) To inform students about the labour legislations in India.
- 3) To enlighten students about social security legislations.
- 4) To introduce students to the concept of industrial relations.

To highlight the issue of industrial conflict

22PMSWC32-2: MEDICAL SOCIAL WORK (MSW)

- 1) To introduce the students to the concept of medical social work and related aspects.

- 1) To inform the students about the Psychological, Social and economic implications of illness and disability.
- 2) To enlighten the students about hospital as a formal organisation.
- 3) To make students aware of Impairment, Disability, and Handicap.

To highlight the specific needs and problems of patients and their families

22PMSWC32-3: URBAN COMMUNITY DEVELOPMENT (UCD)

- 1) To understand the issues of Urban Communities.
- 2) To gain knowledge about the Structure, Principles, Process and Programmes of Urban Community Development.

- 3) To understand the role and strategies of the various stakeholders in Urban Community Development.
- 4) To gain knowledge of development t administration of urban community development.
- 5) To understand of policies and legislation related to urban community development.

22PMSWC33: COMPUTER APPLICATION IN SOCIAL WORK

1. To understand the fundamentals of computing and word processing.
2. To understand the fundamentals word processing
3. To gain knowledge in using SPSS in social work researches
4. To familiarize in using SPSS in social work researches
5. To gain knowledge and familiarity in using SPSS in social work researches

22PMSWP34: CONCURRENT FIELD WORK - III

- 1) To sensitive the students to social needs and problems and enable them to critically analyze problems and select the appropriate means of problem solving.

1) To understand and apply the social work methods to deal with such needs and problems.

To begin to acquire skills of social work intervention in human needs situations and issues

22PMSWE35-1: DISASTER MANAGEMENT AND SOCIAL WORK

- 1) To develop an understanding of eco system equilibrium and disequilibrium

2) To develop skills to analyze the factors contributing to disaster

3) To develop and understanding of the process of Disaster Management

4) To develop Skills and promote intervention strategies to assess the vulnerability and prepare modules for the future eventualities

To know the recent developments in the field of psychosocial support during disasters

22PMSWE35-2: SOCIAL WORK WITH THE ELDERLY PEOPLE

- 1) To understand the theories, concepts and perspectives in gerontology and gerontological social work

2) To examine the historical norms of roles, power and status of older persons and emerging trends and issues in the context of liberalized political economy and changing demography.

3) To study the physical, mental, sexual, emotional, economic, social and spiritual aspects of ageing and emerging needs.

4) To facilitate social legislation pertaining to elderly.

5) To understand role of Non-Governmental Organization to protection of elderly people.

22PMSWE35-3: HOSPITAL ADMINISTRATION

- 1) To gain basic knowledge on Hospital Administration

2) To understand the functions of Hospital

3) To acquire the skill of administering Hospitals.

4) To understand of Human Resource in Management in Hospitals.

To develop challenge faced in the hospitals

22PMSWO36-1: LIFE SKILLS AND PERSONALITY DEVELOPMENT

1. To understanding the process of basic life skills.

2. To develop practice based skills and positive life skills for competence in personal life

3. To understand and uphold professional values and ethics.

4. To gain knowledge about effective and interpersonal communication skills.

5. To understand holistic concept of personality development

22PMSWO36-2: COUNSELLING AND GUIDANCE

1. To acquire knowledge of the theoretical approaches to counselling.
2. To understand the process of Counselling.
3. To gain knowledge of practice of Counselling in different settings
4. To understand counselling relationship with client

22PMSWO36-3: SOCIAL PROBLEMS IN INDIA

5. To gain knowledge of counseling as professional profession
1. To familiarize the students with the concept of poverty and dependency.
2. To inform the students about beggary and the role of the government in preventing it.
3. To highlight the issue of alcoholism and drug addiction.
4. To teach students about the issue of juvenile delinquency.

22PMSWC41-1: ORGANIZATIONAL BEHAVIOUR AND DEVELOPMENT (OB&D)

5. To understand child labour and juvenile delinquency problem
- 1) To understand the concept of organizational behavior & its management
- 2) To understand the systems approach as applied to Human and Organizational behavior.

22PMSWC41-2: MENTAL HEALTH AND PSYCHIATRIC DISORDERS (M&P)

- 3) To gain knowledge of contemporary issues and approaches to the organizational change facing organizations.
 - 4) To apply organizational behavior approaches to the analysis of one organization's initiatives.
- To understand of current trends of Organizational Behaviour practice

22PMSWC41-3: NGO'S AND COMMUNITY DEVELOPMENT

- 1) To understand the concept of Mental Health and the characteristics of Positive Mental Health
 - 1) To acquire knowledge of Psychiatric disorders
 - 2) To develop skills in identifying mental disorders in health setting and in community work.
 - 3) To sensitize students of the need for a proactive, preventive approach in mental health.
- To understand of therapeutic intervention in psychiatric social work

22PMSWC42-1: INDUSTRIAL RELATIONS AND STRATEGIC MANAGEMENT

- 1) To learn about various strategies towards the development of the communities.
 - 1) To facilitate the students to understand about the structure of NGOs and their management aspects.
 - 2) To understand the meaning of Management Concepts, Principles and Process in the context of Non Profit Sector.
 - 3) To provide knowledge on Project Management.
- To gain insights into the Government Programmes of various Ministries and Departments.

22PMSWC42-2: COMMUNITY AND PUBLIC HEALTH IN INDIA

- 1) To understand the basic concepts of Industrial Relations and Labour Welfare
 - 1) To develop a holistic understanding of the functioning of the Industrial Relations System
 - 2) To familiarize with the recent trends in Industrial Relations
 - 3) To acquire familiarity with the concepts, frameworks and techniques of strategic management
- To increase the knowledge on various approaches and methods of Strategic Management.
- 1) To develop an understanding of the Health Care System in India.
 - 1) To develop skills in planning and implementation of Community Health programmes.
 - 2) To have an insight into the existing programmes and services at the local, National and International level.

3) To sensitize students about the need for proactive, Preventive and developmental approaches in the field of health.

22PMSWC42-3: DEVELOPMENTAL STRATEGIES AND SOCIAL AUDIT

To understand maternity and child health indicators in India

- 1) To acquire knowledge and skills required for a development professional
- 1) To give a clear understanding of nature and forms of development interventions strategies
- 2) To equip the professional social work trainees with cutting edge development techniques
- 3) To gain knowledge on social audit

To acquire skills to practice social accounts and audit

22PMSWC43: SOCIAL POLICY AND SOCIAL LEGISLATIONS

1. To understand social policies in India in terms of themes, trends and deliveries.

2. To gain knowledge in social legislation and procedure

3. To explore the Social Legislation for Marriage and Family

4. To explore the Social Legislation for Women and Children

5. To explore the Social Legislation for Weaker Sections and Special Groups in India

22PMSWP44: CONCURRENT FIELD WORK - IV

1) To sensitize the students to social needs and problems and enable them to critically analyze problems and select the appropriate means of problem solving.

1) To understand and apply the social work methods to deal with such needs and problems.

2) To begin to acquire skills of social work intervention in human needs situations and issues.

3) To know about intervention aspect of dealing with case work and group work.

22PMSWE45-1: COUNSELLING THEORY AND PRACTICE

1) To develop a basic understanding of theory and skills in counselling

1) To learn the different approaches and to develop an eclectic approach to counselling

2) To integrate counselling skills in Social work practice

3) To give an outline sketch on the common techniques at use in Counselling

To explore students can be influenced for voluntary behavioral change and self-realization

22PMSWE45-2: CORPORATE SOCIAL RESPONSIBILITY

1) To understand the need and scope of corporate social responsibility

1) To acquire knowledge and skills to frame CSR policies and practices appropriate to Global business.

2) To gain knowledge about corporate social responsibility

3) To understand the functions and activities of social audit & entrepreneurship

4) To acquire the skills of promoting and working with social entrepreneurship

22PMSWE45-3: SOCIAL EXCLUSION AND INCLUSIVE DEVELOPMENT

1. To introduce debate, definitions and various approaches to the study of social exclusion and inclusive policy measures.

2. To understand about the excluded communities and economic factors imparting on social system leading to social exclusion.

3. To apply social exclusion methods for an inclusive State Policies.

4. To understanding of qualitative and quantitative data base for social inclusion and exclusion

5. To gain knowledge of concept of welfare state.

M.SC STATISTICS

22PSTAC11: MATRICES AND LINEAR ALGEBRA	<ol style="list-style-type: none">1) To enrich the skills of students for learning the concepts, methods of matrices and linear algebra.2) To learn some advanced concept of linear transformations of vector spaces.3) To learn eigenvalues and eigenvectors and the Characteristic equation of a matrix.
22PSTAC12: MEASURE AND PROBABILITY THEORY	To introduce students to measure theory in a rigorous way and explore some applications to probability theory
22PSTAC13: SAMPLING THEORY	To enrich the skills of students to get more specialization in various sampling procedures and for adopting the appropriate sampling technique in real life application and survey
22PSTAP14: STATISTICS PRACTICAL-I (USING SPSS)	To Gain the knowledge of basic statistical computation using SPSS
22PSTAE15-1: OPERATIONS RESEARCH	To build strong theoretical foundation of various optimization techniques in operations research that makes use of statistical concepts abundantly
22PSTAE15-2: OFFICIAL STATISTICS	<ol style="list-style-type: none">1) Understand the functioning of government and its policies.2) Promote human resource development in the official statistics and encourage research and development in theoretical and applied statistics.
22PSTAE15-3: PYTHON PROGRAMMING	Execute the data handling tasks in various government records To enable the students to learn basic python skills and data structures Students can learn advanced contents in statistics with application for business and economics. At the end of the course students will be able to understand, interpret and apply several statistical methods and models commonly used in the analysis of business data
22PSTAO16-1: STATISTICAL METHODS	To enable students to learn basic statistics, function of statistics, elementary probability, random variables, computation of correlation and regression coefficients.
22PSTAO16-2: DESCRIPTIVE STATISTICS	
22PSTAO16-3: BASIC BIO STATISTICS	To enable the students of other discipline to understand the basic concepts of Bio Statistics in Biological applications To know the basic ideas of continuous and truncated distributions and to study the concepts of bivariate distribution, non-central t, F and Chi square and Beta distributions, Order statistics and quadratic forms.
22PSTAC21: DISTRIBUTION THEORY	To enhance the methods of diagnosis of statistical estimation of parameters
22PSTAC22: ESTIMATION THEORY	To enhance the knowledge of statistical applications in industries
22PSTAC23: STATISTICAL QUALITY CONTROL AND RELIABILITY	
22PSTAP24: STATISTICS PRACTICAL-II (CALCULATOR BASED)	To have practical knowledge on application of matrices to linear problems, sampling technique, estimate the parameter and statistical quality control using real life data.
22PSTAE25-1: PROGRAMMING IN C++ WITH APPLICATION	This course aims to introducing the language C++ in a systematic manner to make the students to have knowledge in program writing and developing the software Enable students to gain knowledge about basic concepts of data warehousing and data mining and to understand the various techniques involved in mining the data from the databases
22PSTAE25-2: DATA MINING	To enable the students to understand the basic concepts of demographic analysis.
22PSTAE25-3: DEMOGRAPHY	<ol style="list-style-type: none">1) To understands the conceptual background of Human Rights.2) To study international and regional norms and institutional mechanisms of Human Rights.
22PHUMR27: HUMAN RIGHTS	<ol style="list-style-type: none">3) To know the international concern for Human Rights.

	4) To explore the emerging issues in international human rights. To study the Classification of Human Rights The object is to acquire knowledge on advancements for making decisions based on statistical hypotheses To understand the basic concepts of Multivariate analysis for applying more than two-dimension situation and to have practical knowledge on principal components and discriminant analysis To help students of our programme to prepare manuscripts that will have a high probability of being accepted for publication and of being completely understood when they are published
22PSTAC31: TESTING OF STATISTICAL HYPOTHESES	
22PSTAC32: MULTIVARIATE STATISTICAL ANALYSIS	
22PSTAC33: RESEARCH METHODOLOGY	
22PSTAP34: STATISTICS PRACTICAL-III (CALCULATOR BASED)	1. To understand the various concepts of testing of hypotheses. 2. To familiarize the students in solving problems in multivariate analysis. To understand how regression models can be used to analyze data and test hypotheses. Explore the role of regression analysis in decision making The emphasis of this course will be on understanding the tools of econometrics and applying them in practice To enrich the skills of students for learning the different models in categorical data
22PSTAE35-1: APPLIED REGRESSION ANALYSIS	
22PSTAE35-2: ECONOMETRICS	
22PSTAE35-3: CATEGORICAL DATA ANALYSIS	
22PSTAO36-1: OPERATIONS RESEARCH	To enable the students to learn optimization techniques viz., graphical method, simplex programming, transportation and assignment problem, game problem and network model
22PSTAO36-2: APPLIED STATISTICS	To enable the students of other discipline to understand the basic concepts and applications of statistics.
22PSTAO36-3: INDIAN OFFICIAL AND APPLIED STATISTICS	To apply statistics in multi-disciplinary sciences for making decisions and to have knowledge on the applications of time series and index numbers in real life data. To enrich the basic principles of design of experiments, general designs, multiple comparison tests, factorial and incomplete block designs and their applications To acquire the standard concepts and methods of Stochastic modelling and its applications.
22PSTAC41: DESIGN AND ANALYSIS OF EXPERIMENTS	
22PSTAC42: STOCHASTIC PROCESSES	
22PSTAP43: STATISTICS PRACTICAL-IV (CALCULATOR BASED)	1. To enable students to solve problems related to design of experiment. 2. To solve the real-life problems related to stochastic processes. To enable the students to develop computational and technical skills for real life applications emphasizing the importance of R programming
22PSTAP44 - STATISTICS PRACTICAL-V (USING R PROGRAMMING)	
22PSTAE45-1: TIME SERIES ANALYSIS	Study about basic components of time series analysis and provide time series models to applicable emerging fields.
22PSTAE45-2: BIO STATISTICS AND SURVIVAL ANALYSIS	To enable students to learn about types of Clinical Trials, Test for Multiple regression, Survival Analysis and life time distributions to study Kaplan-Meier and Cox Models To have knowledge on life table, premium, profits and pension benefits
22PSTAE45-3: ACTUARIAL STATISTICS	

To enable students to utilize the theoretical knowledge gained in the core papers and to develop computational and technical skills for real life applications by collecting primary / secondary data and performing analyses and submitting their findings in the form of dissertation / project.

All the admitted candidates shall have to carryout a project work during the fourth semester under the supervision of the faculty of the Department of Statistics in the College. The core project shall be individual. Candidates shall have to submit three copies of the report of the project work at the end of the fourth semester at least two weeks before the last working day and shall have to appear for a Viva-Voce examination. The reports shall be evaluated and Viva-Voce examination shall be conducted jointly by an External Examiner and the Project Guide. The maximum marks for the project report and Viva-Voce examination shall be fixed as 100, which is split with the following components:

Seminar Marks by the Project Guide : 25 marks

Evaluation of Project Report jointly by the External Examiner and the Guide : 50 marks

Viva-Voce Examination by the external examiner : 25 marks

22PSTAD46 - PROJECT

M.SC MATHS

22PMATC12: ADVANCED REAL ANALYSIS

1) To give the students a thorough knowledge of real valued functions and their properties.

2) To discuss the concepts of Riemann –stieltjes integral and its properties.

To develop the concept of analysis in abstract situations

1.To develop strong background on finding solutions to linear differential equations with constant and variable coefficients and also singular points.

2.To study existence and uniqueness of the solutions of first order differential equations

22PMATC13: ORDINARY DIFFERENTIAL EQUATIONS

22PMATC14: OPTIMIZATION TECHNIQUES

1) To enlighten the students in the field of operations research.

2) To help the students to apply OR techniques in business and management problems.

To provide a mathematical programming for finding applications in diverse fields Including engineering, computer science and economics

22PMATE15-1: FUZZY SETS AND APPLICATIONS

22PMATE15-2: MATHEMATICAL STATISTICS

Familiarize the students with the fundamentals of fuzzy sets, operations on these sets and concept of membership function. Familiar with fuzzy relations and the properties of these relations .To know the concept of a fuzzy number and how it is defined. Become aware of the use of fuzzy inference systems in the design of intelligent systems

1) To study random variables and its applications.

2) To explore probability distributions.

3) To understand moments and their functions.

4) To introduce significance tests.

5) Concepts of ANOVA

22PMATE15-3: WAVELETS

1) To introduce the basic notions and techniques of Wavelets Theory.

To establish the Concepts to understand and use wavelets from Fourier to wavelet analysis

22PMATO16-1: BASIC MATHEMATICS

The objectives of the course are to know about the concepts of matrices and its applications, Ordinary and Partial Differential Equations, Laplace Transforms and Fourier Series

22PMATO16-2: MATHEMATICAL FOUNDATIONS

- 1) To learn how to apply fundamental mathematical tools and techniques used in most
- 2) fields of science and mathematics
- 3) To learn the different types of functions and operators
- 4) To learn the conditional and bi conditional statements ,conjunction and disjunction

22PMATO16-3: Latex

- 5) To learn the concepts of lattices and Boolean Algebra
- 6) To know the different kinds of Interpolation.

1) Introduce the Software knowledge in Latex
2) Learn Mathematics structures using Latex
Understanding the basic concepts and their properties are important for the development of the present and further courses

22PMATC21: ADVANCED LINEAR ALGEBRA

- 1) To aim learning the students to solve systems of linear equations using multiple methods, matrix operations including inverses
- 2) To establish basic properties of algebra of polynomials over a field
- 3) To apply principles of matrix algebra
- 4) To investigate determinant of matrices and its properties
To understand the canonical forms of matrices and its properties

22PMATC22: MEASURE THEORY AND INTEGRATION

- 1) To generalize the concept of integration using measures.
- 2) To develop the concept of analysis in abstract situations.

To discuss convergence in measure and properties of L_p Space

22PMATC23: PARTIAL DIFFERENTIAL EQUATIONS

- 1) To introduce to the students the various types of partial differential equations.
How to solve the partial differential equations

22PMATC24: CLASSICAL DYNAMICS

- 1) Classical mechanics afford the student an opportunity to master many of mathematics techniques.
- 2) It is certainly true that classical mechanics today is far from being a closed subject.
- 3) Alternate means exist in the curriculum for acquiring the mathematics needed in other branches

To give a details knowledge about the mechanical system of particles, applications of Lagrange's equations and Hamilton's equations as well as the theory of Hamilton Jacobi Theory
The course aim is to introduce the concept divisibility and Euclidean algorithm, quadratics residues and reciprocity, encryption and decryption, primality test

22PMATE25-1: NUMBER THEORY AND CRYPTOGRAPHY

22PMATE25-2: FORMAL LANGUAGES AND AUTOMATA THEORY

- 1) Identify the role of switch as simple nontrivial finite automaton
- 2) Describe states, deterministic and nondeterministic nature of transition
- 3) Differentiate various languages and the corresponding Machines which accepts them

- 4) Ascertain the limitations of automaton

22PMATE25-3: DIFFERENTIAL GEOMETRY

- 1) To introduce space curves , surfaces ,curves on surfaces ,and study some of their properties.

- 2) To study the notion of geodesics and its properties.
- 3) To understand some type of special surfaces such as developables and minimal surfaces.

2PHUMR27: HUMAN RIGHTS

- 1) To understands the conceptual background of Human Rights.
- 2) To study international and regional norms and institutional mechanisms of Human Rights.

	<ul style="list-style-type: none"> 3) To know the international concern for Human Rights. 4) To explore the emerging issues in international human rights. <p>To study the Classification of Human Rights</p>
22PMATC31: ADVANCED COMPLEX ANALYSIS	<p>This course aims to train the students to get essential knowledge in functions of a complex variable, Analytic functions and their properties, Residue theorem and its applications, Riemann mapping theorem are discussed in detail</p> <p>To provide knowledge on point set topology, topological space, Quotient spaces, product spaces and metric spaces sequences, continuity of functions connectedness and compactness, homotopy and covering spaces</p> <ul style="list-style-type: none"> 1) The prime aim of this paper is to enrich the knowledge of Research and motivation in Research.
22PMATC32: TOPOLOGY	
22PMATC33: RESEARCH METHODOLOGY	<ul style="list-style-type: none"> 1) The concept of different types of modules are introduced. 2) Localization and its applications introduced. 3) Holomorphic functions, complex differentiation, integrations are discussed in detail. <p>Fourier transform formal properties are discussed</p> <ul style="list-style-type: none"> 1) Acquire the skill of advanced level of mathematical sophistication and enhancing the horizons of knowledge.
22PMATC34: STOCHASTIC PROCESSES	<ul style="list-style-type: none"> 1) Acquire understanding of applicability of different concepts of stochastic processes on some physical situation. To familiarize the students with the use of stochastic models in different areas <ul style="list-style-type: none"> 1) To explore the knowledge in Lattices and their applications. 1) To develop applications of switching circuits. <ul style="list-style-type: none"> 2) To understand mathematical reasoning in order to read, comprehend and construct mathematical arguments. <ul style="list-style-type: none"> 3) To develop mathematical foundations to understand and create mathematical arguments in crypto systems. <p>To motivate students how to solve practical problems using Discrete Mathematics</p>
22PMATE35-1: DISCRETE MATHEMATICS	
22PMATE35-2: MATHEMATICAL METHODS	<ul style="list-style-type: none"> 1) Generating the special functions of polynomials and series 1) Introduce fundamentals of infinite and finite Integral transforms and applying differential equation and integral equation. <p>Use in special functions, Integral transforms and differential equations as tools for problem solving</p> <ul style="list-style-type: none"> 1) The main purpose of the course is to introduce students to understand the concepts of the Special Theory of Relativity and Relativistic Dynamics.
22PMATE35-3: THEORY OF RELATIVITY	
22PMATO36-1: ELEMENTARY NUMERICAL METHODS	<p>Students should be able to implement the methods taught in the course to work associated problems, including proving results of suitable accessibility in different field</p> <ul style="list-style-type: none"> 1) To introduce wide range of range of numerical methods for solving mathematical problems. 2) To explore the concepts of Derivation and Analysis in numerical methods. 3) To Solve system of linear algebraic equations and interpolations. 4) To learn Solving techniques in Numerical integration & differentiation. <p>To upgrade the students to learn Numerical solution of ordinary differential equations</p>

22PMATO36-2: OPERATIONS RESEARCH

- 1) To study the Artificial Variable Techniques
- 2) To understand the Games and Strategies
- 3) To understand some types of Inventory Problems
- 4) To understand some types of Queueing Problems

22PMATO36-3: MATHEMATICS FOR COMPETITIVE EXAMINATIONS

- 1) To enrich the problem solving skills.
- 1) To acquire knowledge to write the competitive examinations.

To solve problems using visual reasoning

This course introduces functional analysis and perator theoretic concepts. This area combines ideas from linear algebra and analysis in order to handle infinite-dimensional vector spaces and linear mappings thereof

22PMATC41: FUNCTIONAL ANALYSIS

22PMATC42: FLUID DYNAMICS

- 1) To know the knowledge about fluid particles in steady and unsteady compressible and incompressible flows.

- 1) To provide the basic knowledge of two and three dimensional potential flows.

To apply the viscous flow in some real life situations

- 1) To understand and apply the fundamental concepts in graph theory.

- 1) To apply graph theory based tools in solving practical problems.
- 2) To understand the Eulerian graphs and Hamiltonian graphs.

- 3) To introduce the idea of coloring in graphs.

To develop the understating of Geometric Duals in Planar graphs

- 1) To learn the basic knowledge of C language as pre-requisites

- 1) To enable the students to write the C++ programs using classes, functions and interfaces

- 2) To develop programming skills in C++ with its object-oriented concepts

To make applications using C++ programs

- 1) To study the mathematical models through ODE and difference equations.

This course aims to train the students to get essential knowledge to develop mathematical models in real life problems

- 1) To introduce wide range of range of numerical methods for solving mathematical problems.

- 1) To explore the concepts of Derivation and Analysis in numerical methods.

- 2) To Solve system of linear algebraic equations and interpolations.

- 3) To learn Solving techniques in Numerical integration & differentiation.

To upgrade the students to learn Numerical solution of ordinary differential equations

1. To make learning of Classical Mechanics interesting and to teach the Lagrangian and Hamiltonian formalisms and their applications.

2. To study the kinematics of the rigid body through Euler's equations

3. To study the theory of Hamilton Jacobi theory and central force problem

4. To teach the theory of small oscillations and vibrational modes of molecules and to create an understanding of the principles of Nonlinear dynamics and classical chaos.

5. To understand relativity and its consequences

1. To introduce the students the concepts of vector analysis and its uses.

22PPHYC12: MATHEMATICAL PHYSICS – I

M.SC PHYSICS

22PPHYC11: CLASSICAL AND RELATIVISTIC MECHANICS

2. To make the students to understand matrices and applications.
 3. To make the student to study the aspect of tensor analysis.
 4. To involve the student to learn special functions.
- To educate the students in understanding group theory
- 1) To understand the working of semiconductor devices and diodes.

22PPHYC13: ELECTRONICS

- 2) To educate the various types of semiconductor memories.
 - 3) To study the importance and applications of operational amplifier.
 - 4) To know about the basics of IC fabrication and applications of timer IC – 555.
- To learn basics idea about the nanoelectronics

22PPHY14: PRACTICAL – 1 GENERAL & ELECTRONICS-I

1. To make the students to understand experimental physics
2. To apply the theoretical knowledge for developing new devices
3. To study the aspects related to the application side of the experiments
4. To understand the usage of basic laws and theories to determine various properties of the materials given

22PPHYE15 - 1: NUMERICAL METHODS AND PYTHON PROGRAMMING

1. To educate the students in understanding Numerical solution of algebraic, transcendental and Simultaneous linear algebraic equations.
2. To make the students to understand Numerical Interpolation.
3. To educate the students in understanding Numerical Differentiation, Integration and Solutions of ordinary differential equations.

4. To involve the student to learn python fundamentals.
- To involve the student to learn File management and Data Management in python tools

22PPHYE15 - 2: SOLAR ENERGY UTILIZATION

1. Understand basic characteristics of Solar Energy and Technologies.
2. Learn the design and importance of Solar Energy Collectors for Solar energy utilization.
3. Use the testing methods to analyze various solar energy collectors.
4. Understand different types of energy storage devices and its uses.
5. Learn and use the concepts of Solar thermal and Photovoltaic power generation.

22PPHYE15 – 3: LASER PHYSICS AND NON LINEAR OPTICS5

1. To understand the basic theory of laser action and the concept of Q-switching
 2. To explain illustrate the working of various advanced Lasers available
 3. To describe the basic Physics of nonlinear optics and demonstrate different NLO phenomena
 4. To understand the Multiphoton process
- To learn the vitals Fiber Optics

22PPHYO16 -1: COMMUNICATION PHYSICS

1. Understand the basic elements of communication systems.
 2. Realize the importance of the Electromagnetic field theory in signal propagation.
 3. Justify the necessity and benefits of modulation and demodulation techniques.
 4. Describe the various modulation and demodulation techniques used for signal transmission.
- Learn the basics of fiber optic communication

22PPHYO16-2: SPECTROSCOPY AND LASERS

1. To give knowledge about the microwave spectroscopy and its applications.

2. To educate the regarding the important of IR and UV spectroscopy
3. To expose the student to the effective study and applications of Raman spectroscopy.
4. To introduce knowledge on basics of laser.
To study the types and applications of lasers

22PPHYO16-3: BASICS OF RENEWABLE ENERGY SOURECES

1. To learn various types of alternative sources of energy.
2. To understand the basics and applications of solar energy.
3. To understand harvesting methods of wind, ocean, geothermal and hydro energies.
4. To learn the basics of piezo-electric effect and its applications in energy harvesting.
To understand the various forms of electromagnetic energy harvesting techniques

22PPHYC21: QUANTUM MECHANICS

1. To introduce the basic postulates of quantum mechanics.
2. To make the student to understand exactly solvable systems.
3. To elucidate the aspects of time – independent and time-dependent perturbation theories.
4. To introduce the concepts of angular momentum and identical particles.
To make the students to understand relativistic quantum mechanics

22PPHYC22: MATHEMATICAL PHYSICS – II

1. To make the students the understand partial differential equations in physics problems.
2. To make the student in gaining knowledge of complex variable.
3. To involve the student to learn special functions.
4. To educate the students to develop the understanding of integral transforms.
To introduce the probability theory

22PPHYC23: THERMODYNAMICS AND STATISTICAL MECHANICS

1. To provide adequate introduction on the postulates of Thermodynamics
2. To understand the Transport properties and related equilibrium concepts
3. To learn the basics of classical statistical mechanics and to understand some of their applications
4. To learn the basics of quantum statistical mechanics and to understand some of their applications
5. To train to apply quantum mechanical statistics to various applications

22PPHY24: PRACTICAL – II :GENERAL & ELECTRONICS-II

1. To provide adequate introduction on the postulates of Thermodynamics
2. To understand the Transport properties and related equilibrium concepts
3. To learn the basics of classical and quantum statistical mechanics and to understand some of their applications
4. To study the microscopic and macroscopic properties of matter through the statistical probability laws and distribution of particles

22PPHYE25-1: NANO SCIENCE AND NANO TECHNOLOGY

1. To provide the Knowledge about the basics of Nanoscience and Technology.
2. To understand the structures, properties, characterization and applications of nanomaterials.
3. To attain the knowledge about types of synthesis methods and characterization techniques.
4. To apply their acquired skill in research to synthesis and to select appropriate characterization for nanomaterials.
To acquire a knowledge about the types of nanomaterials used for various applications

22PPHYE25 - 2: PETRO PHYSICS

1. To learn the basics of magnetic properties of minerals
 2. To understand knowledge on various fundamentals of geomagnetic elements.
 3. To gain in depth knowledge about the classification of rock forming minerals and geophysical methods.
 4. To study the importance of seismic waves
- To study the geochronology and thermoluminescence

22PPHYE25 – 3: COMMUNICATION ELECTRONICS

1. To understand the basics of wave propagations and the concepts of micro wave communication
2. To learn the basic principles of Fiber Optics Communication & networking system.
3. To study the elements of RADAR communication.
4. To update the knowledge on satellite communication and the equipment used.

To introduce the preliminary concepts of mobile communication systems

- 1) To understand the conceptual background of Human Rights.

- 2) To study international and regional norms and institutional mechanisms of Human Rights.

- 3) To know the international concern for Human Rights.
- 4) To explore the emerging issues in international human rights.

To study the Classification of Human Rights

2PHUMR27: HUMAN RIGHTS

22PPHYC31: ELECTRO MAGNETIC THEORY

- 1) To develop a strong background in electromagnetic theory
- 2) To understand the nature of electric and magnetic force fields and the intricate connection between them
- 3) To provide a clear and logical presentation of Electrostatics and electrodynamics
- 4) To understand and use various mathematical tools to solve Maxwell equations in problems of wave propagation and radiation
- 5) To develop skills on solving analytical problems in electromagnetism
- 6) To make the students understand the source of production and propagation of EM waves.

22PPHYC32: CONDENSED MATTER PHYSICS

1. To give strong foundation in the conceptual understanding of the physical properties of crystals.

2. To make learning of Theory of Electrons and Dielectric Properties of Solids

3. To study the Theory of Ferroelectrics and Piezo Electrics
4. To create an understanding on the principles of Magnetic Properties of Materials

To develop analytical thinking to understand the phenomenon of optical properties of solids thereby equip students to pursue higher learning confidently

1. To identify and formulate the research problem with the consideration of research ethics.
2. To learn various types of scientific data analysis.

22PPHYC33: RESEARCH METHODOLOGY

3. To learn to utilize the facilities of computers in research.
4. To learn the scientific writing techniques.

To familiarize the codes of IPR and the funding agencies

22PPHY34: PRACTICAL – III GENERAL & ELECTRONICS-III

1. To make the students to understand experimental physics
2. To apply the theoretical knowledge for developing new devices
3. To study the aspects related to the application side of the experiments

22PPHYE35 – 1: MATERIALS PHYSICS AND PROCESSING TECHNIQUES

4. To provide a hands-on learning experience and understand the basic concepts and applications of microprocessor

1. To impart knowledge on various material growth, synthesis and processing techniques

2. To make understood various processes related to Plasma Processing

3. To give an in-depth understanding on the principles and applications of Vacuum Techniques

4. To introduce some important advanced materials of smart and futuristic nature.

To learn the characterization techniques that gives compositional analysis

1. To learn the architecture of 8085 microprocessor, interrupts and timing diagrams

2. To write assembly language programmes to 8085 microprocessor

3. To study the architecture of 8086 microprocessor

4. To familiarize the architecture of 8051 microcontroller and its programming

5. To understand the principle of interfacing with peripheral devices and study the interfacing devices of 8085 and 8051

1. To study the basic concepts involved in cell biology.

2. To understand and apply various tools for cell

3. To apply optical and diffraction techniques in bio-physics

4. To learn various separations techniques based on physics principles.

To introduce bio-materials and implanting techniques

22PPHYO36-1: ANALOG AND DIGITAL ELECTRONICS

1. To introduce the basic active elements in Electronics.

2. To make the student to understand operational amplifiers

3. To make the student to understand Boolean function

4. To make the student to understand digital circuits

To make the students to understand microprocessor

1. To create a basic knowledge in nano materials.

2. To know the significance of nanomaterials.

3. To enable the students to explore the field of nanomaterials.

4. To demonstrate the different tools for the characterization of synthesized materials.

5. To select the nanomaterials for various applications.

1. To provide a general concept in the dimensions of disasters caused by nature beyond the human control.

2. To understand the disasters and environmental hazards induced by human activities with emphasis on disaster preparedness, response and recovery.

3. To learn the disaster management techniques.

4. To understand the Methods and techniques in disaster management.

To become aware of the role of social workers at the time of disaster

1. Understand the fundamental principles and concepts governing nuclear and particle physics.

2. Realize the nuclear structure and nuclear forces through various theories.

3. Analyze the theories involved in radioactive decays

4. Learn about nuclear fission and fusion reactions.

Gain knowledge in elementary particles based on theoretical models

1. To understand the basics of Atomic Spectroscopy and the interaction of matter and energy.

22PPHYC41: NUCLEAR AND ELEMENTARY PARTICLE PHYSICS

22PPHYC42: SPECTROSCOPY

2. To familiarize with the basic principles of Microwave and absorption spectroscopic techniques and their applications.
3. To introduce Raman Spectroscopy and learn the determination of atomic structure, chemical composition and physical properties of materials from Raman Spectrum.
4. To know the basics and applications of Nuclear Magnetic Resonance and Nuclear Quadrupole Resonance spectroscopies.
5. To learn the principles of ESR and Massbauer Spectroscopies

22PPHY43: PRACTICAL - IV :ADVANCED GENERAL EXPERIMENTS,MICROCONTROLLER AND PYTHON PROGRAMMING

1. To make the students to understand experimental physics
2. To apply the theoretical knowledge for developing new device
3. To study the aspects related to the application side of the experiments
4. To provide a hands-on learning experience and understand the basic concepts of PYTHON programming and applications of 8051microcontroller

22PPHYE45-1: MEDICAL PHYSICS

1. To improve the knowledge regarding the bio medical instruments used for measuring bio-electric potentials.
 2. To understand the basic concepts in radiation and its interaction and dose measurement.
 3. To educate scientifically the principles of radiation and its effect in the medical field.
- To emphasize the significance of various medical techniques and therapy

22PPHYE45-2: CRYSTAL GROWTH AND THIN FILM PHYSICS

1. Understand the fundamentals of crystal growth and nucleation
 2. Study various techniques of Crystal growth for research activities.
 3. Familiarize with various Thin film deposition techniques and their importance.
 4. Learn the fundamentals of nucleation and film growth through nucleation theory.
- Gain knowledge in various methods of measuring thickness of thin films

22PPHYE45-3 DIGITAL INSTRUMENTATION

1. To identify the various transducers and sensors involved in various measurements and select types of transducer sensor and for particular measurement
2. To enable the students understand the principle behind instrumentation for measurements
3. To understand the principle, construction and working of various analytical, digital and electronic instrumentations
4. To develop knowledge in digital and biomedical instruments for different applications

To understand the operation of medical imaging instruments

M.SC CHEMISTRY

22PCHC11: ORGANIC CHEMISTRY – I

- 1) To learn the basic aspects of stereochemistry
 - 2) To gain knowledge about the reactive intermediate and reactions involving free radicals
 - 3) To study the mechanisms of Aliphatic Nucleophilic and electrophilic substitutions
 - 4) To learn the concepts of Aromaticity, Anti aromaticity and Homo aromaticity of Benzenoid and Non- benzenoid compounds
- To accrue skill of predicting the mechanisms of Aromatic substitution reactions

22PCHEC12: INORGANIC CHEMISTRY - I	<ol style="list-style-type: none"> 1) To know about the structure and bonding of inorganic compounds and the inorganic polymers. 2) To study the concept of coordination chemistry and stability of the complexes 3) To gain knowledge of metal-ligand orbital overlap, molecular orbital theory and energy level diagrams etc., 4) To learn about the mechanism of substitution reactions of octahedral complexes.
	<ol style="list-style-type: none"> 5) To acquire skill of using substitution reactions of square planar complexes and electron transfer reactions for complexes.
22PCHEC13: PHYSICAL CHEMISTRY – I	<ol style="list-style-type: none"> 1) To understand the theories of chemical kinetics in reaction mechanisms. 2) To apply the kinetic concepts in homogenous and heterogeneous catalyzed reactions. 3) To study about Surface Chemistry, surface tension and catalysis. 4) To identify the symmetry of elements, symmetry operations and apply the fundamentals of group theory in electronic spectroscopy
	<p>To appreciate the principals involved in the Rotational and vibrational spectroscopic techniques</p>
22PCHEC14: ORGANIC CHEMISTRY PRACTICAL - I	<p>To learn to synthesise Organic molecules with the available substrates</p>
22PCHEC15: PHYSICAL CHEMISTRY PRACTICAL- I	<p>To learn the operations of instruments for calculating physical parameters.</p>
	<ol style="list-style-type: none"> 1) To impart skills in evaluation of physical parameters by various methods.
	<p>To adopt different methods for validation of results</p>
22PCHEE16-1: POLYMER CHEMISTRY	<ol style="list-style-type: none"> 1) To provide a thorough understanding of the basic concept of polymers 2) To gain knowledge about the different polymerization mechanisms 3) To learn the molecular weight determination and characterization of polymers. 4) To exploit the polymer processing techniques for various applications. 5) To study the importance of advanced polymers
	<ol style="list-style-type: none"> 1) To understand the basics of crystal structures and their defects.
22PCHEE16-2: MATERIALS CHEMISTRY	<ol style="list-style-type: none"> 2) To learn various crystal growth and thin-film techniques. 3) To study the diffusion and electronic properties of nanomaterials 4) To gain knowledge about magnetic properties and dielectric properties of Nanomaterials.
	<ol style="list-style-type: none"> 5) To study Nanocomposites and their functional applications
22PCHEE16-3: PHARMACEUTICAL CHEMISTRY	<ol style="list-style-type: none"> 1) Learn about the drugs and drug targets 2) Observe the mechanism of action of drugs and apply it for the drug design and discovery
	<ol style="list-style-type: none"> 3) Understand the pharmacokinetic and pharmacodynamic parameters in the drug development process 4) Gain knowledge about antineoplastic agents
	<p>Acquire the skill of using cardiovascular drugs for further studies</p>
22PCHEO17-1: FOOD CHEMISTRY	<ol style="list-style-type: none"> 1) To understand the principles of food fermentation technology. 2) To study about packaged drinking water. 3) To study importance of beverages and its types. 4) To study about food adulteration
	<p>To understand about food preservation and packaging</p>
22PCHEO17-2: INDUSTRIAL CHEMISTRY	<ol style="list-style-type: none"> 1) To gain knowledge about the principles of industrial fuels.

	<p>2) To understand the importance of leather and water industry.</p> <p>3) To study about small scale industries.</p> <p>4) To learn the importance of cement and glass industries.</p> <p>To understand the principles of sugar and paper industry</p>
22PCHEO17-3: MEDICINAL CHEMISTRY	<p>1) Make the students learn the concept of medicinal chemistry</p> <p>2) To understand the various sources and classification of drugs</p> <p>3) To learn the importance of Chemotherapy</p> <p>4) To study about the common body ailments</p> <p>To understand about health promoting drugs</p>
22PCHEC21: ORGANIC CHEMISTRY – II	<p>1) To learn about the conformations and reactivity of the substituted six membered ring systems</p> <p>2) To understand the mechanisms of addition and elimination reactions.</p> <p>3) To learn the name reactions with their mechanisms</p> <p>4) To learn the synthetic utilities of various oxidation and reduction reactions.</p> <p>To acquire knowledge on the various concepts of reaction kinetics and the HSAB principle</p>
22PCHEC22: INORGANIC CHEMISTRY – II	<p>1) To make the students knowledgeable in solid state chemistry.</p> <p>2) To study about stellar energy, nuclear reactions etc and to equip the students for their future career in nuclear industry.</p> <p>3) To learn the chemistry of lanthanides and actinides</p> <p>4) To understand the inorganic photochemistry.</p> <p>To gain knowledge about the bioinorganic complexes</p>
22PCHEC23: PHYSICAL CHEMISTRY - II	<p>1) To know the foundations and the physical and mathematical basis of quantum mechanics and to apply the concepts of quantum mechanics to solve problems in microscopic systems.</p> <p>2) To understand the quantum mechanical approach to the atomic and molecular electronic structure and to know the limitations of quantum chemistry in the evaluation of macroscopic properties</p> <p>3) To know the mechanisms of photo chemical reaction</p> <p>4) To know the construction of phase diagram for one, Two and three component systems</p> <p>To understand the catalysis of reactions</p>
22PCHEC24: ORGANIC CHEMISTRY PRACTICAL - III	<p>1) To learn the methods of separating the components of an organic mixture</p> <p>2) To analyse the organic compounds based on the organic analysis.</p> <p>3) To identify the whether the compound is saturated or unsaturated and aliphatic or aromatic.</p> <p>4) Confirm the particular functional group by confirmatory test.</p> <p>To prepare the derivate of that particular functional group To get the skill in the identification of cations including rare earth metals and to develop the skill in the preparation of metal complexes.</p>
22PCHEC25: INORGANIC CHEMISTRY PRACTICAL - I	
22PCHEE26 -1: GREEN CHEMISTRY	<p>1) Understand the basic principles and importance of green chemistry for industrial applications</p> <p>2) Acquire knowledge about the microwave and ultra sound assisted synthesis</p> <p>3) Understand the concept of phase-transfer catalysis</p> <p>4) Gain knowledge about ionic liquids, green reagents, Crown ethers and their applications</p>

22PCHEE26-2: SUPRA MOLECULAR CHEMISTRY	<ol style="list-style-type: none"> 1) To enable the students to gain knowledge about supramolecular interactions.
	<ol style="list-style-type: none"> 2) To enable the students to understand about the binding of Host molecules and synthesis various supramolecules. 3) To enable the students to visualise the bonding interactions, design, synthesis of crystal engineering of supramolecules. 4) To enable the students to learn the mechanism and function of supramolecules as Molecular devices. 5) To enable the students to acquire knowledge about biological mimics and supramolecular Catalysis.
22PCHEE26-3: NANO CHEMISTRY	<ol style="list-style-type: none"> 1) To understand the scientific background, classification and properties of nanomaterials 2) To gain knowledge about special nonmaterial's and to identify the bonding in nanostructure 3) To acquire knowledge about various methods of synthesis of nanomaterials
2PHUMR27: HUMAN RIGHTS	<ol style="list-style-type: none"> 4) To learn characterization techniques used for nanosystems 5) To study various industrial applications of nanotechnology <ol style="list-style-type: none"> 1) To understands the conceptual background of Human Rights. 2) To study international and regional norms and institutional mechanisms of Human Rights. 3) To know the international concern for Human Rights. 4) To explores the emerging issues in international human rights. 5) To study the Classification of Human Rights.
22PCHE31: ORGANIC CHEMISTRY- III	<ol style="list-style-type: none"> 1) To understand the concepts of UV and IR spectroscopic techniques and to apply these techniques in the structural analysis of organic compounds. 2) To learn about the ¹H NMR and ¹³C NMR apply it for the structural elucidation of the compound 3) To study the mass spectroscopic technique.
22PCHE32: INORGANIC CHEMISTRY- III	<ol style="list-style-type: none"> 4) To understand the concept of Photochemical Reactions. To study the concept of Pericyclic Reactions 1) To analyze and interpret the IR and NMR spectra of Inorganic compounds and coordination complexes. 2) To study the Mossbauer and Photoelectron spectroscopy for metal complexes 3) To gain knowledge about the principle and applications of ESR and NQR
22PCHE33: PHYSICAL CHEMISTRY-III	<ol style="list-style-type: none"> 4) To provide the students a thorough understanding of the relationship between the structures, chemical bonds and chemical properties in organo metallic chemistry. To learn about the role of metals in different enzymes 1) To know the applications of classical thermodynamics in the evaluation properties.
	<ol style="list-style-type: none"> 2) To learn the concepts of statistical thermodynamics for the study of equilibrium reactions and reaction intermediates 3) To derive equations for enthalpy, internal energy, Gibb's energy, entropy in terms partition function. 4) To learn the concepts of surface phenomena
22PCHE34: SCIENTIFIC RESEARCH METHODOLOGY	<p>To know the applications of Raman and NMR spectroscopy</p> <ol style="list-style-type: none"> 1) To understand the importance of research and literature sources.

	<ul style="list-style-type: none"> 2) To gain knowledge about the Chemical Abstract search in Chemical research. 3) Acquire knowledge on choosing a research problem and science writing. 4) Adequate knowledge on assessing the quality of analytical data.
22PCHEP35: INORGANIC CHEMISTRY PRACTICAL – II	<p>Working knowledge on Computer aided literature search To know the colorimetric estimation of metal ions and to understand the complexometric titrations</p> <ul style="list-style-type: none"> 1) To analyze physical parameters using some instrumental techniques. 2) To understand the principle behind the qualitative and quantitative measurements.
22PCHEP36: PHYSICAL CHEMISTRY PRACTICAL – II	<p>To impart skill in the measurement of physical parameters</p>
22PCHEO37-1: TEXTILE CHEMISTRY	<ul style="list-style-type: none"> 1) To make the students learn the concept of textile chemistry 2) To understand about Preparatory process. 3) To learn about dyeing. 4) To study about printing. <p>To understand about finishes given to fabrics</p>
22PCHEO37-2: DAIRY CHEMISTRY	<ul style="list-style-type: none"> 1) To make the students learn about dairy chemistry. 1) To understand the importance of milk-lipids, proteins, carbohydrates and vitamins. 2) To understand the importance of condensed milk and cream. 3) To learn the importance of butter and cheese. <p>To understand the importance of the ice-cream and milk product</p>
22PCHEO37-3: AGRICULTURAL CHEMISTRY	<ul style="list-style-type: none"> 1) To make the students aware of different soils. 1) To understand the classification of manures 2) To make the students to learn about the different types of fertilizers. 3) To understand the usage of pesticides and insecticides. <p>To learn the importance of fungicide and herbicide</p>
22PCHEC41: ORGANIC CHEMISTRY- IV	<ul style="list-style-type: none"> 1) Develop problem solving skills requiring application of chemical reaction. 2) To understand the different reagents and their applications. 3) To learn the importance of Proteins and nucleic acid 4) To learn the chemistry of terpenes and alkaloids and their importance. 5) To study about the mechanisms of different rearrangements
22PCHEC42: PHYSICAL CHEMISTRY- IV	<ul style="list-style-type: none"> 1) To understand the behavior of electrolytes in solution and to familiarize the structure of the electrode surface and the applications of electrode processes. 2) To differentiate electrode kinetics from other types of kinetic studies 3) To know the applications of electro analytical Techniques 4) To understand the electronic spectroscopy 5) To know the applications of Laser devices
22PCHEP43: ORGANIC CHEMISTRY PRACTICAL III	<ul style="list-style-type: none"> 1) Estimate quantitatively the amount of phenol, aniline, glucose present in the given solutions & unsaturation of oils 2) Analyze the RM value of butter, saponification / Iodine values of oils 3) Extract the active constituents of milk and tea Elucidate the structure using spectral data
22PCHEP44: INORGANIC CHEMISTRY PRACTICAL III	<p>To develop skills in the determination of a metal ion in presence of another by appropriate techniques</p>

22PCHEP45: PHYSICAL CHEMISTRY PRACTICAL - III

- 1) To analyze physical parameters using some instrumental techniques.
- 2) To understand the principle behind the qualitative and quantitative measurements.

To impart skill in the measurement of physical parameters

22PCHEP46-1: BIOINORGANIC CHEMISTRY

- 1) To have a knowledge about protein metallo biomolecules and the role of metal ions in biological process.
- 2) To learn about essential and trace metal ions in biochemical system
- 3) To learn about respiratory proteins and model compounds for oxygen carriers in biological system
- 4) To learn about the nitrogen fixation, biological redox reaction and photosynthesis

To learn about medicinal bio-inorganic chemistry/chelation therapy

22PCHEE46-2 : INDUSTRIAL ELECTROCHEMISTRY

- 1) To enable the students to gain knowledge in corrosion and its control
- 2) To enable the students to understand about batteries and Fuel Cells.
- 3) To Study the electro plating methods and inorganic conversion coatings.
- 4) To learn the methodologies involved in electro metallurgy and electro chemicals.

To acquire knowledge in photo electrochemistry and its applications

22PCHEE46-3: ADVANCED ANALYTICAL TECHNIQUES

- 1) Know various methods involved in analytical techniques
- 2) Learn qualitative and quantitative measurements in the spectroscopy analysis.
- 3) Learn the separation process using various chromatographic technique.

- 4) Acquire knowledge in electro-analytical techniques.

Gain knowledge about TGA, DSC, DMA and TMA

- 1) Understand the importance of experimental analysis, scientific approach in solving problems related to the environment and society

Educate and train the students to write scientific papers

22PCHEP47: CORE PROJECT

M.SC BOTANY

22PBOTC11: PHYCOLOGY, MYCOLOGY AND BRYOLOGY

1. To understand the General Characters, Economic importance of Algae
2. To understand the diversity, structure and Life cycle of Algae.
3. To understand the General features, diversity, reproduction and of Fungi
4. To acquire the knowledge of General Characters, diversity, reproduction and of Lichens.
5. To understand the General Characters, diversity, reproduction and of Bryophytes

22PBOTC12: MICROBIOLOGY AND PLANT PATHOLOGY

1. To study the different types of microorganisms and their activities
 2. This course is introduced to make the students understand and appreciate the fundamental principles of basic and applied microbiology.
 3. To understand and realize the classification, structure, reproduction and economic Importance of Bacteriology and Virology
 4. To study the mechanism of infection and colonization of plant diseases
- To study disease cycle and control measures of various plant diseases

22PBOTC13: PTERIDOLOGY, GYMNASPERMS AND PALAEOBOTANY

1. To understand the diversity, structural organization, reproduction and evolution of organs of Pteridophytes & Gymnosperms.

2. To understand the diversity, structural organization, reproduction and evolution of organs of Gymnosperms

3. To acquire the knowledge of the paleobotany.

4. To understand the Geological time Scale

5. To develop the skill on studying of fossil Specimens

22PBOTE15-1: MUSHROOM CULTIVATION

1. To study the morphology and types of Mushrooms.

2. To identify edible types in mushroom, Selection of appropriate cultivation sites

3. To know the nutrient value of mushroom

4. To aware the identification of edible and poisonous Mushrooms.

Designing and construction of Mushroom Farm, Packaging, storing and grading of Mushrooms

1) Understanding of key ecological concepts related to forest stand development and the response of forest vegetation to silvicultural practices.

22PBOTE15-2: SILVICULTURE AND SEED TECHNOLOGY

2) Students will demonstrate a familiarity with silvicultural terminology and be able to discuss practical application of regeneration techniques, intermediate treatments, and alternative silvicultural systems.

3) To develop the skill of Silviculture Systems.

4) Students will be able to develop a silvicultural prescription to accomplish identified ownership objectives.

To understand the Germination, Viability and Storage of Seed

1. To acquire the knowledge of scope of industrial microbiology

2. To understand the importance of microbes, basics of a sterilization, fermenter design and types.

3. To study the avenues of exploiting microbes in bioconversion technology.

4. To study the industrial production, product recovery and commercial application in fermentation.

22PBOTE15-3: INDUSTRIAL MICROBIOLOGY

5. To develop the skill on production of Microbial metabolites

22PBOTO16-1: ORGANIC FARMING AND BIOFERTILIZERS

1) Increase genetic diversity.

2) Promote more usage of natural pesticides.

3) To exploit the microbial diversity in various agro-ecologies for biofertilizer application in diversified systems.

4) To study the impact of soil management practices on microbial functions and soil health.

5) To improve biofertilizer technology to ensure high quality and improved delivery.

22PBOTO16-2: HERBAL BOTANY

1) To study the importance of herbal medicine in India

2) To identify the herbal medicine uses plant

3) To cultivation medicinal plants

4) To understand the morphological characters of medicinal plants

5) To learn the survey techniques for evaluating the values of medicinal plants

22PBOTO16-3: MUSHROOM CULTIVATION

1) To study the morphology and types of Mushrooms.

2) To know the spawn production technique.

3) To aware the identification of edible and poisonous Mushrooms.

4) To learn the prospects and scope of mushroom cultivation in small scale industry.

22PBOTC21: ANATOMY AND EMBRYOLOGY OF ANGIOSPERMS

To understand the Diseases. Post harvesting techniques of Mushrooms

1. To provide an insight into the internal structure and reproduction of the most evolved group of plants, the Angiosperms;
2. To get an insight into the histochemistry with special reference to various stains and staining procedures
3. To study and understand morphological, internal structure of diverse plant groups for the evolution of structure-functions and their application
4. To understand the origin, structure, growth, development and reproduction of angiosperms.

22PBOTC22: CYTOGENETICS, PLANT BREEDING AND EVOLUTION

5. To understand the development of Dicots and Monocots
 - 1) To understand the structure of prokaryotic and eukaryotic cell and Cell organelles.

- 2) To Understand the Principles of Mendelian Genetics.

- 3) To acquire knowledge about Mutation and Mutagens

- 4) To understand the Principle and significance of Plant Breeding

To understand the Process and theories of Evolution

- 1) To understand and the production of exact copies of plants that produce particularly good flowers, fruits, or have other desirable traits.

- 2) To quickly produce mature millions of plants.

- 3) To acquire knowledge on the production of multiples of plants in the absence of seeds or necessary pollinators to produce seeds.

- 4) To improve the state of health of the planted material and to increase the number of desirable germplasms available to the plant breeder.

- 5) To develop Skill on plantlet generation by using tissue culture techniques

22PBOTC23: PLANT TISSUE CULTURE

- 1) To study the Introduction, concepts and Significance of marine Biology

- 2) To understand Marine environment, Ecosystem and its Biodiversity.

- 3) To acquire the knowledge about Microalgae, Macro algae, Sea grasses and Mangroves

- 4) To Understand the economic importance of Microalgae, Macroalgae, Sea grasses and Mangroves

To apply the skill on Identifying the sources, impact and control of Marine Pollution

- 1) To understand working principle, and applications of Microscopy

- 2) To provide knowledge about Micro and Spectroscopic techniques

22PBOTE25-1: MARINE BOTANY

- 3) To understand the working Principle of Spectroscopy

- 4) To understand the Molecular biology tools and techniques

- 5) To acquire the knowledge on Tissue culture techniques

22PBOTE25-2: TECHNIQUES IN BOTANY

1. To acquire the knowledge of Pharmacognosy

2. To understand the diversity, isolation, identification of plant phytochemicals

3. To acquire the knowledge of Therapeutic Uses of Plants and Drugs

4. To understand the application of medicinal Plants

5. To acquire the knowledge of Crude Plant Drugs

- 1) To understand the Human Rights and concern for its protection

22PBOTE25-3: PHARMACOGNOSY

22PHUMR27: HUMAN RIGHTS

2) To acquire the knowledge about the role of UN in protecting and promoting awareness of Human Rights and National legislations enforcement

3) To trace the development of regional instruments drafted aiming at protection of Human Rights and its enforceability.

4) To understand the Indian perspective of protection of Human Rights vide its Legislations, the Constitution of India Fundamental rights, Duties and

Directive Principles of the State Policy

To aware about Special legislations and the enforcement machineries of Human Rights in India

22PBOTC31: TAXONOMY OF ANGIOSPERMS AND ECONOMIC BOTANY

1. To introduce the techniques of plant identification.
2. Realize the origin of Angiosperms with respect to time, place, origin and probable ancestors

3. Understand various angiosperm families emphasizing their morphology, distinctive features and biology
4. To enable the students to have an understanding on how cultivated plants originated and how they are introduced across the world.

To provide an understanding of the economic aspects of various plants

22PBOTC32: PLANT BIOTECHNOLOGY GENETIC ENGINEERING AND BIOINFORMATICS

1. To understand the principles of Plant tissue culture
2. To develop the skill on Techniques in Biotechnology
3. To acquire the knowledge of Genome organization
4. To understand the principles and applications of r-DNA technology
5. To understand the scope and applications of Genetic engineering

22PBOTC33: RESEARCH METHODOLOGY

1. To understand the importance research writing
2. To study the importance of instrumentation in Plant Science research

3. To understand the computer application in plant biology

4. To understand the basic biostatistics and research tools
5. To develop the skill on operating Microscopes, Instruments and Computers

22PBOTE35-1: APPLIED BOTANY

1. To understand the post-harvest technology of fruits
2. To develop the Skill on handling of storage, marketing and export the Fruits
3. To acquire knowledge about the cultivation process of some Cut flowers.
4. To acquire knowledge on seed certification
5. To understand the Seed viability and certification

22PBOTE35-2: BIOPROSPECTING OF MEDICINAL AND AROMATIC PLANTS

1. Develop critical understanding on the evolution of concept of organization of apex new crops/varieties, importance of germplasm diversity, issues related to access and ownership.
2. Develop a basic knowledge of taxonomic diversity and important families of useful plants.
3. Appreciate the diversity of plants and the plant products in human use.

4. Exploring the potential medicinal and aromatic plants etc. Various phytochemical techniques, industrial process, pharmacognostic procedures, authentication of specimens, Preservation of plants and plants products

22PBOTE35- 3: HERBARIUM KEEPING

1. To acquire knowledge and skills in herbarium keeping
2. To understand the principles of herbarium management

	<ol style="list-style-type: none"> 3. To understand the handling and identification of Specimen 4. To develop the skill on E-Herbarium
<p style="text-align: center;">22PBOTO36-1: HORTICULTURE</p>	<ol style="list-style-type: none"> 5. To expertise the Methods of effective herbarium keeping <ol style="list-style-type: none"> 1. To understand the main principles and importance of horticulture. 2. To develop skill in horticulture techniques. 3. To develop potential for self-employment. 4. To acquire, integrate and apply knowledge of plant science to horticultural systems <p>To apply professionalism and proficiency in skills that relate to horticulture</p>
<p style="text-align: center;">22PBOTO36-2: PLANTS FOR HUMAN WELFARE</p>	<ol style="list-style-type: none"> 1. To enlighten the students on the sources and role of plants in meeting the basic demands of the human 2. To study the economic aspects of selected crops. 3. To study the utilization of plants as food and wealth for human. 4. To reveal the range of products and their novel usage in human life 5. To enhancement of food production also became the component of biology and human welfare.
<p style="text-align: center;">22PBOTO36-3: BIOLOGICAL INVASIONS</p>	<ol style="list-style-type: none"> 1. To understand the invasion biology provides a foundation for the principles and practices of biosecurity. 2. To evaluate the biological and ecological factors that influence the impact of invasive species 3. To consider ecological theory that applies to biological invasions, including colonisation and propagule pressure, population growth, predator-prey and pathogen host interaction 4. To evaluate the potential threats posed by non-indigenous organisms that attack or compete with plants. <p>To apply ecological theory to explain the entry, establishment, spread and impact of populations, particularly non-indigenous organisms that threaten plant health</p>
<p style="text-align: center;">22PBOTC41: PLANT PHYSIOLOGY AND BIOCHEMISTRY</p>	<ol style="list-style-type: none"> 1. To understand the Mechanism of water absorption by the plants 2. To understand the anabolism and catabolism of plants 3. To acquire the knowledge about structure and function of the biomolecules. 4. To understand the function of enzymes in plant metabolism 5. To understand the metabolism of secondary metabolites
<p style="text-align: center;">22PBOTC42 : ECOLOGY, FORESTRY AND PHYTOGEOGRAPHY</p>	<ol style="list-style-type: none"> 1. To introduce the concepts and principles of ecology, biological diversity, conservation, to solve environmental problems. 2. To understand the Environmental Impact Assessment (EIA), Energy resources, various types' environmental pollution, water pollution and conservation strategies with sustainable management. 3. To appreciate the values and the need for conservation and management of Ecosystem, forest resources 4. To interpret forest conservation, and resource management conflicts <p>To integrate the social and natural sciences</p>
<p style="text-align: center;">22PBOTE45-1: BIOINFORMATICS AND BIONANOTECHNOLOGY</p>	<ol style="list-style-type: none"> 1. Apply reasoning about core biological concepts with emphases on the cellular and molecular scale of biology

2. Design, implement and evaluate computer-based systems, processes, components or programs in relation to the contexts of molecular and cellular biology and genomics research.
 3. To know the basics of computer and networking
 4. To learn the basics of bioinformatics tools
- To study the basics of bionanotechnology and characterization of nanoparticles

22PBOTE45-2: ETHNOBOTANY AND HERBAL TECHNOLOGY

1. To impart the scope and importance of ethnobotany
 2. To understand the various systems of medicines.
 3. To enable the students in identifying medicinal taxa.
 4. To know the preliminary phytochemistry of plant parts.
- To understand the therapeutic properties of some common medicinal herbs

22PBOTE45-3: INTELLECTUAL PROPERTY RIGHTS AND PATENTING

1. To recognize the importance of IP and to educate the pupils on basic concepts of Intellectual Property Rights.
 2. To identify the significance of practice and procedure of Patents.
 3. To make the students to understand the statutory provisions of different forms of IPRs in simple forms.
 4. To learn the procedure of obtaining Patents, Copyrights, Trade Marks & Industrial Design
- To enable the students to keep their IP rights alive

M.SC ZOOLOGY

22PZOOC11: STRUCTURE AND FUNCTIONS OF INVERTEBRATES AND VERTEBRATES

- 1) To understand the Structure and Functions of invertebrates and vertebrates.
 - 2) To understand the organs of respiration and excretion and their functioning in invertebrates.
 - 3) To analyses the nervous systems of various groups in invertebrates.
- To evaluate the larval forms of invertebrates to acquire knowledge on various organ system of vertebrates

22PZOOC12: DEVELOPMENTAL BIOLOGY

- 1) To understand the various concepts of development
- 2) To study gametogenesis and process of fertilization
- 3) To learn the processes of embryogenesis, organ formation and differentiation
- 4) To analyse the embryonic induction and teratogenesis
- 5) To critically explore assisted reproductive technologies for human welfare

22PZOOC13: CELL AND MOLECULAR BIOLOGY

- 1) To understand the molecular basis of cell structure and functions
 - 2) To learn the structure and functions of various organization and cell membrane
 - 3) To learn bioenergetics and biogenesis
 - 4) To learn structure and replication of DNA
- To learn various molecular techniques

22ZOOE15-1: TOXICOLOGY

- 1) To learn the concepts and processes involved in toxicology
- 2) To understand the various methods to know absorption and distribution of toxicants
- 3) To study the biotransformation and excretion of toxicants
- 4) To learn the impacts of toxicants and human beings
- 5) To learn the application of antidotes and Biomonitoring

22ZOOE15-2: APICULTURE

- 1) To acquire knowledge of honey bees and their social values.

- 2) To acquire knowledge about the rearing techniques and different types of artificial hives
 - 3) To acquire the clear knowledge about the bee enemies, diseases, and their control measures.
 - 4) To acquire knowledge about the importance of bee products and their marketing.
- To entrepreneur motivation for practicing apiculture as cottage industry

22ZOOE15-3: PUBLIC HEALTH AND HYGIENE

- 1) To learn important vector borne diseases of human being
- 2) To understand diseases caused by protozoans
- 3) To acquire knowledge in diseases caused by helminthes
- 4) To learn common air, food and water borne disease

22ZOOO16-1: VECTOR BIOLOGY AND VECTOR BORNE DISEASES

- 1) To acquire the knowledge of insects and their problems.
 - 2) To acquire the clear knowledge about the different types of insects and their causes.
 - 3) To acquire the knowledge about the importance of controlling of diseases spreading insects.
- To acquire the clear knowledge about the diseases and their control measures

22ZOOO16-2: POULTRY FARMING AND ANAGEMENT

- 1) Give information about the poultry and its importance. It gives an idea for the self- employment opportunities to the students.
- 2) To understand the poultry industry based on the past, present and emphasis of future growth.
- 3) To understand with different systems of rearing commercial layers and broilers production and efficiently marketing.

4) Imparting knowledge of different types of feeds and feeding methods and common diseases and their control

22ZOOO16-3: WASTE MANAGEMENT

- 1) To make the students to understand the various kinds of waste management.
- 2) To make the students to know the basic knowledge about various waste to energy conversion techniques
- 3) Study the principles behind remedial measures for waste management and recycling of wastes.
- 4) Understand the concept of bioremediation

22P ZOOC 21: ANIMAL PHYSIOLOGY

- 1) To learn the significance of food and physiology diagram
- 2) To understand the significance of excretory and osmoregulation system.
- 3) To study the functioning of cardiovascular system
- 4) To study respiratory and nervous systems including various receptors

22PZOOC 22: GENETICS

- 1) To learn the fundamental concepts of genetics
 - 2) To study human health related genetic problems, qualitative and quantitative traits and population genetics
 - 3) To learn the structure of genes and their regulation
 - 4) To acquire skills in chromosomal alterations, gene mutations and cancer.
- To learn application of genetics concepts in microbial genetics and genetic engineering

22PZOOC23: BIOCHEMISTRY

- 1) To learn classification and metabolism of carbohydrates
- 2) To understand the structure and metabolism of protein
- 3) To learn the structure and functions of lipids
- 4) To acquire knowledge about various enzymes and hormones and their actions

22ZOOE25-1 ENTOMOLOGY

- 5) To acquire knowledge about the significance of vitamins
- 1) To learn various insects and their classification
- 2) To learn the morphological, anatomical and physiological systems in insects
- 3) To learn knowledge in agricultural entomology as well as beneficial insects
- 4) To learn vector insects and their role in public health
- 5) To learn knowledge on pest management

22ZOOE25-2: BIOPHYSICS & BIostatISTICS

- 1) To make the students, operate various microscopes.
- 2) To make the students, understand spectroscopic principle and application
- 3) To make the students, know various bio-molecule separation techniques.
- 4) To make the students to understand the Data collection and its classification
- 5) To make the students to understand statistical tools and its application

22ZOOE25-3: VERMITECHNOLOGY

- 1) To understand the knowledge of Earthworms and their biological diversity and importance
- 2) To gain the principals and applications of vermitechnology and their application techniques
- 3) To identify the different methods of Composts and their benefits in agriculture fields
- 4) To understand the significant of vermitecholgy and their impacts.
- 5) To Understand the role of earthworms on the decomposition process

2PHUMR27: HUMAN RIGHTS

- 1) To understands the conceptual background of Human Rights.
- 2) To study international and regional norms and institutional mechanisms of Human Rights.
- 3) To know the international concern for Human Rights.
- 4) To explores the emerging issues in international human rights.

To study the Classification of Human Rights

22PZOC31: EVOLUTION AND PHYLOGENY

- 1) To gain awareness about the origin of life
- 2) To understand the roles of variations, polymorphisms, and polyploidy in evolution
- 3) To familiarize the role of isolation and speciation in evolution
- 4) To understand the various types of adaptations and mimicry
- 5) To learn the evolution of mankind

22PZOC32: ENVIRONMENT AND BIODIVERSITY CONSERVATION

- 1) To gain awareness about the basic concepts of environment and ecology

- 1) To create a mindset for conservation of biodiversity
- 2) To familiarize the concept of environmental impact assessment
- 3) To understand the significance of natural resources and sustainable development
- 4) To create awareness about environmental pollution and its prevention

22PZOC33: RESEARCH METHODOLOGY

To learn the phenomenon of global warming and its prevention

- 1) To gain familiarity with research and its types.
- 1) To learn the appropriate methods of literature collection and analysis.
- 2) To familiarize Instrumentation and its applications in research.

22ZOOE35-1: MICROBIOLOGY	<p>3) To inculcate interest in students to pursue research.</p> <p>4) To develop the skill to write the report writing and thesis</p> <p>1) To inculcate knowledge on the fundamentals of microorganisms.</p> <p>1) To learn the structural organization, morphology and reproduction of microbes.</p> <p>2) To know the principles of microscopy and advancements of microscopy.</p> <p>3) Students will be able to isolate, identify and characterize microorganisms.</p>
22ZOOE35-2: FISHERIES & AQUACULTURE	<p>To update the technology innovations of microbial applications</p> <p>1) To learn the principles and practices followed in Inland fisheries and aquaculture</p> <p>1) To learn biology and fisheries potential of marine fisheries</p> <p>2) To acquire skills in culturing finfishes</p> <p>3) To develop skill on fin fish culture</p>
22ZOOE 35-3: BIOINFORMATICS	<p>4) To learn fish harvesting and post harvesting technology</p> <p>1) To learn about the basics of bioinformatics, biological databases and their associated tools.</p> <p>1) To gain knowledge on tools and software used in sequence similarity analysis.</p> <p>2) To understand the concept of conservation analysis and evolutionary relationships.</p> <p>3) To provide knowledge on different computational programs available to predict genes in both prokaryotes and Eukaryotes.</p>
22ZOOO36-1: : DAIRY FARMING	<p>To explore the concept of computational methods of protein structure prediction and available bioinformatics online resources for proteomic data analysis</p> <p>1) Learned about dairy farming and dairy breeds</p> <p>2) Learned on cattle feed and nutritional requirements of cattles</p> <p>3) Gained knowledge about techniques of producing quality milk</p>
22ZOOO36-2: WILDLIFE CONSERVATION	<p>1) To understand the concept wildlife and wildlife threats.</p> <p>1) To learn the modes of wildlife conservation and explore different conservation measures for various wildlife problems .</p> <p>2) To perceive actions associated with conservation.</p> <p>To identify conflicts associated with wildlife and reasons and mitigation measures</p>
22ZOOO36-3: ORNAMENTAL FISH CULTURE	<p>1) To understand the current status of ornamental fish farming in India.</p> <p>1) To gain knowledge about the ornamental fish trade in the national and international scenario.</p> <p>2) To gain practical knowledge on culturing live feed for ornamental fishes.</p> <p>3) To study the Aquascaping, Aquatic plants, and other ornamental animals, diseases and their Control</p>
22PZOOC 41: IMMUNOLOGY & BIOTECHNOLOGY	<p>1) To develop awareness regarding the molecules, cells and organ involved in immune system and their significances in up keeping the organism</p> <p>1) To learn the various types of antigen and antibody and interaction</p> <p>2) To gain knowledge regarding the application of immunological techniques</p> <p>3) To learn the basic concepts in biotechnology</p>

4) To learn the various techniques used in biotechnology

22PZOOC42: WILDLIFE BIOLOGY & ANIMAL BEHAVIOUR

1) To understand the concept wildlife and wildlife resources.

1) To investigate the techniques associated with wildlife and habitat assessment and usage of field equipments.

2) To evaluate the behavior of different wild animals and understand the significances of various behaviours.

3) To identify conflicts associated with wildlife and reasons and mitigation measures

4) To explore different conservation measures for various wildlife problems

P22ZOOE45-1: ENDOCRINOLOGY

1) To learn general concepts of hormones and pituitary gland

1) To understand structure and functions of thyroid and parathyroid gland

2) To learn the structure and functions of pancreas and adrenal glands

3) To acquire knowledge in the endocrinological basis of vertebrate reproduction

To understand endocrinology of insects and crustaceans

1) To acquire the knowledge of silkworm and their social values

1) To acquire the clear knowledge about the rearing techniques and different types of silkworm.

2) To acquire the knowledge about the importance of silk products and their marketing.

3) To acquire the clear knowledge about the silkworm enemies and diseases and their control measures.

4) To acquire the knowledge of silkworm and their social values

P22ZOOE45-2: SERICULTURE

22ZOOE45-3: INTEGRATED PEST MANAGEMENT

1) To reduce pest status below economic injury level.

1) To manage insects by not only killing them but by preventing feeding multiplication and dispersal.

2) For use eco-friendly methods which will maintain quality of environment.

3) To make components in sustainable crop productions.

To reduce pest status below economic injury level

**M.SC COMPUTER
SCIENCE**

22PCSCC11: DESIGN AND ANALYSIS OF ALGORITHMS

1) Learning basic concepts of Algorithm.

2) Method of sorting algorithms analyzed.

3) To Analyze Greedy Algorithm and Knapsack Problem.

4) To analyze Dynamic Programming.

To learn effective problem solving in Computing applications and analyze the algorithmic procedure to determine the computational complexity of algorithms

1) To get familiar with the concept of packages, interface.

2) Able to understand Inheritance and Exception handling in java.

3) To learn the concept of Graphical User Interface (GUI).

4) Analyse Network Programming, and database manipulation.

5) Student will be able to develop web application using Java Servlet and Java Server Pages technology

22PCSCC12: ADVANCED JAVA PROGRAMMING

22PCSCC13: ADVANCED DATABASE MANAGEMENT SYSTEM

1) To understand the basic concepts and terminology related to DBMS and Relational Database Design.

- 2) To the design and implement Distributed Databases.
- 3) To apply normalization techniques to improve database design.

- 4) To understand advanced DBMS techniques to construct tables and write effective queries, forms, and reports.

22PCSCP14: ALGORITHM LAB USING JAVA

Analyze a T/O based techniques for designing the database

- 1) Implement Sorting algorithm methods.
- 2) Analyze DFS and BFS Algorithm methods.
- 3) To evaluate Back Tracking and Greedy Algorithm.
- 4) Implement Dijkstra's Algorithm.

To Develop Dynamic Programming

- 1) To explore the features of a Database Management Systems.

- 2) To interface a database with front end tools.
- 3) To understand the internals of a database system.
- 4) To use of different Evaluation Plans.

To interface of Concurrency & Transactions & Big Data Analysis Using Hadoop

- 1) Discover principles, algorithms and techniques that can be used to construct various phases of compiler.
- 2) Acquire knowledge about finite automata and regular expressions.
- 3) Learn context free grammars, compiler parsing techniques.
- 4) Explore knowledge about Syntax Directed definitions and translation scheme.
- 5) Understand intermediate machine representations and actual code generation

22PCSC16-1: COMPILER DESIGN

22PCSC16-2: HUMAN COMPUTER INTERACTION

- 1) To impart knowledge related to the various concepts, methods of Human Computer Interaction techniques.
- 2) Helps to Understand Interaction and Design basics.
- 3) Able to understand Design rules.
- 4) Approaches to user support Adaptive help systems – Designing user support systems. Implementing new ideas and users support

22PCSC16-3: THEORY OF COMPUTATION

- 1) To introduce students to the mathematical foundations of computation including automata theory.
- 2) Ability to understand the theory of formal languages and grammars.
- 3) To Understand the notions of algorithm, decidability, complexity and computability.
- 4) To enhance Students' ability to understand and conduct mathematical proofs for computational algorithms.

To Understand Un decidable problems about turning machine

22PCSCO17-1: FUNDAMENTALS OF COMPUTER APPLICATION

- 1) To know about computer and basic applications of computer.
- 2) To get knowledge about operating system.
- 3) To aim at imparting a basic level appreciation Programme.
- 4) To Understand word processing.

To develop Word spread sheet and power point Presentation

22PCSCO17-2: IoT AND ITS APPLICATIONS

- 1) To get familiar with the evolution of IOT with its design principles.
- 1) To outline the functionalities and protocols of internet communication.

	<ul style="list-style-type: none"> 2) To analyze the hardware and software components needed to construct IOT applications. 3) To identify the appropriate protocol for API construction and writing embedded code. <p>To realize various business models and ethics in Internet of Things.</p> <ul style="list-style-type: none"> 1) To understand the standards available for different audio, video and text applications.
22PCSCO17-3: MULTIMEDIA AND ITS APPLICATIONS	<ul style="list-style-type: none"> 1) To learn various multimedia authoring systems in multimedia production Team. 2) To learn an create a image. 3) To understand principles of animation in Multimedia. <p>To know the stages of various Multimedia Projects</p> <ul style="list-style-type: none"> 1) Explore the backbone of webpage creation by developing .NET skill. 2) Enrich knowledge about HTML control and web control classes. 3) Provide depth knowledge about ADO.NET 4) Understand the need of usability, evaluation methods for web services. <p>Developing Component based Programming</p> <ul style="list-style-type: none"> 1) Demonstrate an understanding of the importance of data mining. 2) Understand principles of business intelligence. 3) Organize and prepare the data needed for data mining using pre-processing techniques. 4) Perform exploratory analysis of the data to be used for mining. <p>Implement the appropriate data mining methods like classification, clustering or Frequent Pattern mining on large data sets</p>
22PCSCC21: ADVANCED WEB TECHNOLOGY	<ul style="list-style-type: none"> 1) To study Distributed operating system concepts. 2) To understand hardware, software and Communication in Distributed OS. 3) To learn the distributed resource management components. 4) Practices to learn concepts of OS and Program the principles of Operating Systems. <p>To Learn Linux Operating System</p>
22PCSCC22: DATA MINING AND BUSINESS INTELLIGENCE	<ul style="list-style-type: none"> 1) Create simple Web service Programs. 2) Develop windows application based web services. 3) Accessing Database in Web services. 4) To create an application that simulates sending a SOAP message. <p>Develop a Web intranet/internet based Web Service Client</p>
22PCSCC23: DISTRIBUTED OPERATING SYSTEM	<ul style="list-style-type: none"> 1) To introduce the concept of data Mining as an important tool for enterprise data management and as a cutting-edge technology for building competitive advantage. 2) To enable students to effectively identify sources of data and process it for data mining. 3) To learn how to gather and analyze large sets of data to gain useful business understanding through the R language. 4) To impart skills that can enable students to approach business problems. <p>To analytically identifying opportunities to derive business value from data</p>
22PCSCP24: ADVANCED WEB TECHNOLOGIES LAB	<ul style="list-style-type: none"> 1) To understand basics of Cryptography and Network Security. 2) To be able to secure a message over in secure channel by various means.
22PCSCP25: DATA MINING LAB USING R	
22PCSCE26-1: CRYPTOGRAPHY AND NETWORK SECURITY	

22PCSC26-2: OPEN SOURCE COMPUTING

3) To learn about how to maintain the Confidentiality, Integrity and Availability of a data.

4) To understand various protocols for network security to protect against the threats in the networks.

To Understand Intruders and detection Techniques

1) To understand the features of PHP.

2) To develop the different applications using PHP.

3) To demonstrate the applications using PHP with Mysql.

4) To understand the concepts of Perl.

To develop the applications using Perl

1) Familiarize with soft computing concepts.

2) Introduce and use the idea of fuzzy logic and use of heuristics based on human experience.

3) Familiarize the Neuro-Fuzzy modeling using Classification and Clustering techniques.

4) Learn the concepts of Genetic algorithm and its applications.

5) Acquire the knowledge of Rough Sets.

22PCSC26-3: SOFT COMPUTING

Introduce students to Bi-directional Associative Memory

1) To understand the conceptual background of Human Rights.

2) To study international and regional norms and institutional mechanisms of Human Rights.

3) To know the international concern for Human Rights.

4) To explore the emerging issues in international human rights.

To study the Classification of Human Rights

1) To provide complete knowledge on Digital Image Processing methods

2) Able to Understand image processing methods in Spatial domain and Frequency domain

3) To Understand Edge detection, Edge features and their applications.

4) To Provide concepts of Image Compression Models

Enable the students to understand the concepts and implement them empirically

To introduce students to the basic concepts and techniques of Machine Learning.

2PHUMR27: HUMAN RIGHTS

22PCSC31: Digital Image Processing

22PCSC32: Machine Learning

To understand the regression methods, regularization methods.

To Analyze clustering methods and metrics.

To discover patterns in data and then make predictions based on often complex patterns to answer business questions, detect and analyze trends and help solve problems.

To introduce students to the state-of-the-art concepts and techniques of Machine Learning.

LO1 To demonstrate the knowledge of research processes (reading, evaluating, and developing);

LO2 To perform literature reviews using print and online databases;

LO3 To identify, explain, compare, and prepare the key elements of a research proposal/report;

LO4 To compare and contrast quantitative and qualitative research

22PCSC33: Research Methodology

LO5 To analyze Measurement concepts

LO1 To impart skills on the processing of digital images.
LO2 To learn the transformation of images from spatial domain to frequency domain.
LO3 To perform the edge deduction techniques.
LO4 To gain knowledge about compressing the images using suitable techniques.
LO5 To know the segmentation methods

22PCSCP34: IMAGE PROCESSING LAB

LO1 To get an overview of the various machine learning techniques.
LO2 To demonstrate python and its applications
LO3 To familiarize various machine learning software libraries and data sets publicly available.
LO4 To develop machine learning based system for various real-world problems.
LO5 The knowledge of using machine learning to make predictions in a scientific computing environment

22PCSCP35: MACHINE LEARNING LAB

COURSE OBJECTIVES

LO1 The objective of this course is to provide students with the comprehensive and in-depth knowledge of Cloud Computing concepts
LO2 Introducing and researching state-of-the-art in Cloud Computing fundamental issues
LO3 To Understand Cloud Computing architecture and applications.
LO4 To expose the students to frontier areas of Cloud Computing and information systems.
LO5 To provide sufficient foundations to enable further study and research.

22PCSC36-1: CLOUD COMPUTING

COURSE OBJECTIVES

LO1 To understand the basic concepts of operations research and to impart the knowledge on various operations research techniques and their applications.
LO2 Optimization is an effective approach to achieve a “best” solution, where a single objective is maximized or minimized
LO3 Optimization methods are used in many areas of study to find solutions that maximize or minimize some study parameters,
LO4 To make the Students become familiar with the basic Principle of LPP and enrich knowledge to formulate and solve an LPP using various methods.
LO5 To impart Optimization Techniques.

22PCSC36-2: OPTIMIZATION TECHNIQUES

- 1) To learn the Kinds of parallelism, Parallel computer architectures (processor arrays, centralized memory multiprocessors, distributed memory multiprocessors and multi computers)
- 2) To know and develop the Parallel algorithm design
- 3) To identify the MPI library of message-passing functions
- 4) To recognize the development of data-parallel programs
- 5) To develop manager-worker programs with functional parallelism

22PCSC36-3: PARALLEL COMPUTING

Be exposed with the basic rudiments of business intelligence system.

22PCSCO37-1: Business Intelligence

Understand the modeling aspects behind Business Intelligence.
Understand of the business intelligence life cycle and the techniques used in it.
To Link data mining with business intelligence
To know the future of Business Intelligence

22PCSCO37-2: MANAGEMENT INFORMATION SYSTEM

Understand the leadership role of Management Information Systems in achieving business competitive advantage through informed decision making.

Understand Modern Information System & its life cycle.
Analyze and synthesize Concept of DSS, IS, ES information system.

22PCSCO37-3: WEB SERVICES

Develop the skills about Testing Security & Cost benefit analysis.
Learning Concept of Knowledge & Human dimension.

To Understand Web Services and implementation model for SOA

To Understand the SOA, its Principles and Benefits.

Understanding cloud computing as a web service.

Discuss the concept of virtualization and data in cloud.

Learning basic concept of cloud computing & cloud service Modes.

Focusing on advanced topics and is a must for anyone interested in doing research in computer networks.

To build a solid foundation in computer networks concepts and design

The course will expose students to the concepts of traditional as well as modern day computer networks –Wireless transmissions, Communication Satellites.

The student understand concept of like Data Link Layer in the Internet & Medium Access Layer.

22PCSCC41: ADVANCED COMPUTER NETWORKS

Student's study this paper knows about Internet Transport Protocol (ITP), Network Security and Cryptography.

LO1 To understand the history Blockchain

LO2 To Understand types and applications of Blockchain

LO3 To acquire knowledge about cryptography and consensus algorithms.

LO4 Deploy projects using Web and design.

LO5 To Understand blockchain based Security issues.

22PCSCC42: BLOCKCHAIN TECHNOLOGY

COURSE OBJECTIVES

LO1 To Introduce the concept of wireless devices with signal, Antenna, Radio Frequencies, Signal Propagation.

LO2 To Introduce wireless communication and networking principles

LO3 To know the connectivity of cellular networks, Wireless LAN, GSM, CDMA.

LO4 To introduce the WAP Architecture, MANET and Routing

LO5 To analyze next generation Mobile Communication System

22PCSCE43-1: MOBILE COMPUTING

COURSE OBJECTIVES

LO1 Understand the basic hardware components and their selection method based on the characteristics and attributes of an embedded system.

LO2 Describe the hardware software co-design and firmware design approaches

LO3 Know the RTOS internals, multitasking, task scheduling, task communication and synchronisation

LO4 Learn the development life cycle of embedded system

LO5 Design real time embedded systems using the concepts of RTOS.

22PCSCE43-2: EMBEDDED SYSTEMS

22PCSCE43-3: INFORMATION RETRIIVAL TECHNIQUES

To understand the basics of Information Retrieval.

To understand machine learning techniques for text classification and clustering.

To understand various search engine system operations.

M.SC MICRO BIO

22PCSCD44: PROJECT (Industrial / Research)

To learn different techniques of recommender system
To learn Web retrieval and web crawling
LO1 To provide insights in to real world challenges and problem those required IT Related solutions.
LO2 To empower the students to bring out the IT related solutions for the requirements.
LO3 To expose the students to have a broad idea of literature related to the Project domain.
LO4 To enable students to use all concepts of IT in creating a solution for a problem.
LO5 To improve the team building, communication and management skills of the students

22PMIBC11: FUNDAMENTALS OF MICROBIOLOGY

- 1) To gain basic knowledge about History and Classification of Microorganisms.
- 2) To gain in depth knowledge about Microscopy and Staining Methods.
- 3) To understand about General Characteristics and Structure of Bacterial Cell.
- 4) To acquire knowledge about microbial respiration and Photosynthesis.

To learn the concept of microbial diversity and characteristics of microorganisms in extreme conditions

22PMIBC12: IMMUNOLOGY AND IMMUNOTECHNOLOGY

- 1) To gain an understanding of basic concepts of cells and components of the immune system.

- 2) To gain in depth knowledge about antigen and antibodies.
- 3) To acquire knowledge about hypersensitivity and immune disorders.
- 4) To acquire knowledge about autoimmunity and immunology of transplantation and malignancies.

To learn about serological techniques

22PMIBC13: MOLECULAR BIOLOGY AND RECOMBINANT DNA TECHNOLOGY

- 1) To gain knowledge about the structure and properties of DNA.
- 2) To gain in depth knowledge about organization of DNA and replication.

- 3) To understand about regulations of gene expression.
- 4) To understand about gene cloning process.

To learn about transgenesis of plants and animals

22PMIBP14: PRACTICAL- I (FUNDAMENTALS OF MICROBIOLOGY, IMMUNOLOGY AND IMMUNOTECHNOLOGY, MOLECULAR BIOLOGY AND RECOMBINANT DNA TECHNOLOGY)

- 1) To acquire practical skills in basic microbiological techniques.

- 2) To understand the knowledge about staining techniques.

- 3) To gain knowledge about Antigen –Antibody reactions.
- 4) To acquire skill to perform techniques in recombinant DNA technology.

To acquire skill to isolate genetic material from microorganisms

22PMIBE15-1: ENTREPRENEURSHIP AND MANAGEMENT FOR MICROBIOLOGY

- 1) To make the students to learn the basic concepts related to entrepreneurship within the life science sectors.
- 2) To familiarize about the various schemes available in Nationalized banks.
- 3) To enable the students to learn the skills required to be an entrepreneur.
- 4) To make the students to gain knowledge to start a production unit of bio fertilizers and compost.

22PMIBE15-2: BIOREMEDIATION

To equip the students to understand and develop the skills in the production of diagnostic kits to become an entrepreneur

- 1) To understand the principles of bioremediation.
- 2) To understand the metabolic pathways, the microbes develop for bioremediation.
- 3) To understand about the types of bioremediation.
- 4) To understand about the use of plants in bioremediation

To understand the degradative pathways of xenobiotics

22PMIBE15-3: MICROBIAL NANOTECHNOLOGY

- 1) To help the students to know about the nanotechnology.
 - 2) To acquire knowledge about synthesis of microbial nano particles.
 - 3) To make the students to develop the skill to synthesize metal nanoparticles
 - 4) To emphasize the students an awareness about the applications of nanotechnology in various fields.
- To make the students to realize the various implications of nanotechnology

22PMICO16-1: ADVANCED TECHNIQUES IN CLINICAL MICROBIOLOGY

1. To enable students to understand about laboratory safety measures.
2. To acquire knowledge about sample analysis.
3. To understand the microscopic analysis of clinical samples.
4. To understand about culture methods.
5. To understand about the advanced techniques in clinical microbiology

22PMICO16-2: MICROSCOPIC TECHNIQUES IN MICROBIOLOGY

- 1) To learn about working principles of microscopes.
- 1) To understand about the different types of microscope.
- 2) To acquire knowledge about Fluorescent microscopy.
- 3) To acquire knowledge about Electron Microscopy.

22PMICO16-3: BASICS OF MICROBIOLOGY

To acquire knowledge about Atomic microscopy

- 1) To know about the contributions of pioneers in Microbiology.
- 2) To understand about the working principles of different microscopes.

22PMIBC21: FOOD MICROBIOLOGY

- 3) To understand about the bacterial and viral diseases.
- 4) To gain knowledge about fungal and algal diseases.
- 5) To gain knowledge about protozoan diseases
- 1) To acquaint the student with basic concepts of food microbiology.
- 2) To enable students to understand the principles of food preservation.
- 3) To make the students understand the contamination and spoilage of foods.
- 4) To enable students to understand foods and enzymes from microorganisms.

To make the students familiar with food-borne illness and food sanitation

22PMIBC22: BACTERIOLOGY AND MYCOLOGY

- 1) To make the students familiar with host-parasite relationship.
- 2) To enable students to understand the diseases caused by Gram positive bacteria.
- 3) To make the students understand the diseases caused by Gram negative bacteria, Spirochetes, Mycoplasma and Chlamydiae.
- 4) To enable students to understand the general aspects of medical mycology.

22PMIBC23: PARASITOLOGY AND VIROLOGY

To make the students familiar with fungal infections in humans

- 1) To make the students familiar with the diseases caused by protozoan parasites.
- 2) To enable students to understand the diseases caused by helminths.
- 3) To make the students understand the diagnostic methods in parasitology.
- 4) To enable students to understand the general properties of viruses.

22PMIBP24: PRACTICAL II (FOOD MICROBIOLOGY, BACTERIOLOGY, MYCOLOGY, PARASITOLOGY AND VIROLOGY)

To make the students understand the diseases caused by viruses

- 1) To make the students familiar with microbiological examination of food and dairy products.
- 2) To enable students to understand the laboratory diagnosis of bacterial diseases.
- 3) To make the students understand the diagnostic methods in medical mycology.
- 4) To enable students to understand the laboratory diagnosis of parasitic diseases.

22PMIBE25-1: MICROBIAL INOCULANTS AND MUSHROOM TECHNOLOGY

To make the students understand the techniques in virology

- 1) To learn about the different types of bio inoculants and its mass production.
- 2) To learn about the types of fungal bio inoculants.
- 3) To enable the students to differentiate between the edible and poisonous Mushroom.
- 4) To help the students to develop the skill and other requisites for mushroom cultivation
- 5) To enable the students to find out the various research institutions involved in mushroom cultivation.

22PMIBE25-2 : MICROBIAL DIVERSITY AND EXTREMOPHILES

- 1) To learn the concept of microbial diversity.
- 2) To make the students to develop skills to culture microbes from diverse environment.
- 3) To learn and understand the habitat of methanogens and their applications.

- 4) To understand the adaptations of microbes in extreme pH.

To create an awareness about the microbial life in space

22PMIBE 25-3: ENVIRONMENTAL MICROBIAL TECHNOLOGY

- 1) To provide a fundamental knowledge about the structure and function of ecosystem.

- 2) To realize the impact of water pollution on environment.

- 3) To help the students to understand about the transmission of airborne diseases.

- 4) To make the students to understand the microbial technology involved in waste treatment.

To provide an understanding of microbial degradation of hydrocarbons

22PMICC31: PHARMACEUTICAL MICROBIOLOGY

- 1) To gain knowledge about the pharmaceuticals.

- 2) To know about vaccine and their types.

- 3) To understand the mode of action of antibiotics.

- 4) To gain knowledge about preservation of pharmaceutical products..

To know about Quality Assurance and Validation

22PMICC32: BIOPROCESS TECHNOLOGY

1. To gain knowledge about the principles of fermentation.

2. To understand the fermentor design and types of fermentors.

3. To understand the mass transfers in bioreactors.

4. To gain knowledge about production of therapeutic compounds.

5. To gain knowledge about product recovery

22PMICC33: RESEARCH METHODOLOGY

- 1) To gain knowledge about citations and impact factor.
- 2) To gain knowledge about preparing research report.
- 3) To gain knowledge about general laboratory procedures.
- 4) To gain knowledge about statistical analysis.
- 5) To gain knowledge about ethical committee and laboratory animal management.

22PMICP34: CORE PRACTICAL - III (PHARMACEUTICAL MICROBIOLOGY, BIOPROCESS TECHNOLOGY AND RESEARCH METHODOLOGY)

1. To make the students familiar with production of antibiotics.
2. To enable students to understand antimicrobial activity of a chemical compounds.
3. To make the students understand the production of wine and alcohol through fermentation.
4. To enable students to understand the estimation of proteins and carbohydrates.
5. To make the students understand the statistical based sample analysis

22PMICE35-1 : VERMICULTURE AND VERMITECHNOLOGY

1. To gain knowledge about the concepts of vermicomposting.
2. To gain knowledge about soil properties.
3. To enable knowledge about earthworm biology.
4. To gain knowledge about the types of composting.
5. To gain knowledge about vermicompost quality.

22PMICE35-2 : IPR, BIOSAFETY AND BIOETHICS

- 1) To enable students to know about basic concepts of Intellectual Property Rights.
- 2) To make students understand about Agreements and Treaties.
- 3) To make students understand about Patents.
- 4) To enable awareness about the biosafety.

To understand about basic bioethics

22PMICE35-3: PUBLIC HEALTH MICROBIOLOGY

- 1) To make the student to understand the basic concept of public health.
- 2) To make students aware of Air borne infections.

22PMICO36-1: FOOD PROCESSING TECHNOLOGY

- 3) To make students aware of Water borne infections.
- 4) To make students aware of Food borne infections.

To make students aware of Nosocomial infections

- 1) To learn the basic concepts of food preservation.
- 2) To impart knowledge on the process such as freezing and drying.

22PMICO36-2: INFECTIOUS DISEASE AND ITS CONTROL

- 3) To gain knowledge about use of radiation in food processing
- 4) To enable the students to understand the importance of packaging in food preservation
- 5) To get acquaintance to the latest technologies in food preservation methods

22PMICO36-3: ENVIRONMENTAL MICROBIOLOGY

1. To learn the basic concepts of infection and its types
 2. To understand the pathogenesis of food borne and water borne diseases
 3. To get the knowledge about signs and symptoms of air borne diseases
 4. To learn about the transmission of diseases from animals to human beings
 5. To know about the use and importance of anti microbial agents
- 1) To learn the basic concepts of microbial ecology.
 - 2) To study the microbial diversity in Environment.
 - 3) To Understand the survival of microbes in extreme environments .
 - 4) To know the mechanism of degradation of recalcitrant compounds by the microbes.

22PMICC41: SOIL, AGRICULTURAL AND ENVIRONMENTAL MICROBIOLOGY

- 5) To understand the role of marine microbes in degradation.
- 1) To make the students familiar with soil environment and soil microorganisms.
- 2) To enable students to understand the interactions between microorganisms and plants.
- 3) To make the students understand biogeochemical cycles and plant diseases.
- 4) To enable students to understand the microbiology of air and water.
- 5) To make the students familiar with waste water treatment processes.

22PMICC42: MEDICAL DIAGNOSTIC TECHNOLOGY

- 1) To make the students familiar with laboratory management.
- 2) To enable students to understand pathological examination of clinical specimens.
- 3) To make the students understand the techniques in haematology.
- 4) To impart basic knowledge on techniques in histopathology and cytology.
- 5) To make the students understand biochemical tests and serology.

22PMICP43: PRACTICAL- IV SOIL, AGRICULTURAL, ENVIRONMENTAL MICROBIOLOGY AND MEDICAL DIAGNOSTIC TECHNOLOGY

- 1) To make the students familiar with isolation of soil microorganisms.
- 2) To make the students familiar with isolation of nitrogen fixing bacteria.
- 3) To enable students to understand plant diseases.
- 4) To make the students understand serological reactions.
- 5) To provide an insight in to processing of clinical specimens.

22PMICE44-1: MICROALGAL TECHNOLOGY

- 1) To acquire knowledge about morphology of microalgae.
- 2) To enable the students to cultivate microalgae.
- 3) To make students to understand the importance of microalgae as growth promoting substance.
- 4) To make students to understand the applications of bio-products of microalgae.

22PMICE44-2: MICROBIOME SCIENCE

- 5) To acquire knowledge about improvement of algal strains.
- 1) To enable students about the importance of human, plant and animal microbiome.
- 2) To understand about metagenomics.
- 3) To gain knowledge about microbiome data analysis.
- 4) To understand about functional analysis of microbiome.

To gain knowledge about role of microbiomes in diseases

22PMICE44-3: MARINE MICROBIOLOGY

- 1) To understand the importance of marine environment.
 - 2) To know about Marine extremophiles.
 - 3) To know about the cultivation of marine microbes.
 - 4) To aware of marine pollution and Bioremediation.
- To know about Marine byproducts