



AUXILIUM COLLEGE (Autonomous)

(Accredited by NAAC with A+ Grade with a CGPA of 3.55 out of 4 in the 3rd cycle)
Gandhi Nagar, Vellore – 6.

UG COURSE OUTCOMES (COURSE LEVEL)

COURSE CODE	COURSE TITLE	CO
B.A. ENGLISH		
UCENA20	INTRODUCTION TO LITERARY STUDIES	<ol style="list-style-type: none"> 1. Recognize fundamental literary forms, terms, expressions, techniques and the outline of English literary studies from 16th to 20th century. 2. Explain various genres such as poetry, essays, dramas and ballads 3. Apply the knowledge of the form, structure, narrative techniques, devices and style of literary works to read and interpret literature 4. Compare and contrast the key structural and stylistic aspects of all the literary genres 5. Analyse literature with its historical, social, philosophical and political contexts
UCENB20	ENGLISH PRONUNCIATION: THEORY AND PRACTICE	<ol style="list-style-type: none"> 1. Infer/recognize the role of speech sounds in human language 2. Demonstrate understanding of the structural organization of speech sounds of English language and the subtle variations in its pronunciation 3. Illustrate, identify and label the parts of the human articulator system 4. Remember the English vowels, consonants and diphthongs along with their corresponding (IPA) Phonetic symbols 5. Identify the difference between (i) consonants and vowels, (ii) pure vowels and diphthongs, (iii)voiced and voiceless consonants, (iv) place of articulation and manner of articulation
UALSC20	Allied-LANGUAGE SKILLS FOR COMMUNICATION	<ol style="list-style-type: none"> 1. Demonstrate adequate efficiency in oral and written communication in English 2. Demonstrate knowledge of the structure of English language 3. Understand the process of communication in general and communication in English 4. Utilize the knowledge and skills of English language to get employment 5. Apply the art of rhetoric in oral and written communication in English, convincingly.
UCENC20	INDIAN WRITING IN ENGLISH	<ol style="list-style-type: none"> 1. Identify different literary genres in Indian writing in English 2. Discuss the history of Indian writing in English

		<ol style="list-style-type: none"> 3. Interpret and appraise different style and themes in Indian writing in English 4. Appreciate the diverse themes which are intrinsic to Indian culture 5. Appraise translated texts from the regional languages of India for their indigenous sensibilities.
UCEND20	LITERARY FORMS AND TERMS	<ol style="list-style-type: none"> 1. Explain the significance and characteristics of different ages and movements in literature 2. Identify figures of speech in literary texts 3. Compare and Contrast literary forms 4. Apply the knowledge of forms and other aspects to understand literary texts 5. Analyse literary texts based on form and other literary aspects.
UAEEG20	Allied- ELEMENTS OF ENGLISH GRAMMAR	<ol style="list-style-type: none"> 1. Recall the basic rules of English grammar 2. Explain basic concepts of grammar 3. Apply rules related to structure and correct pattern of English language 4. Use English Language with grammatical accuracy 5. Analyse and correct grammatical errors
UCENE20	ELIZABETHAN LITERATURE	<ol style="list-style-type: none"> 1. Identify the literary history of Elizabethan Age 2. Discuss the major themes and forms in the Literature of the Elizabethan period 3. Analyse the Elizabethan writing as both register and response to historical, social and political development of the era. 4. Examine texts from different perspectives. 5. Appreciate the works of Shakespeare and his contemporaries
UCENF20	AMERICAN LITERATURE	<ol style="list-style-type: none"> 1. Identify characteristic forms or styles of expression during different historical periods in different regions. 2. Discuss the issues, conflicts, preoccupations and themes of various literary texts. 3. Examine the historical, cultural, rhetorical contexts in which the literary texts were written. 4. Analyze literary works as expressions of individual or communal values within the social, political, cultural or religious contexts of different literary periods. 5. Write clear, focused and coherent essays about literature for an academic audience using standard English conventions of grammar and style.
UAHEL20	HISTORY OF ENGLISH LITERATURE	<ol style="list-style-type: none"> 1. Recognize the socio-political, historical background of English Literature down the ages. 2. Discuss Literature as an expression of author's interpretation and representation of life from their ages 3. Apply a critical enquiry to designate the style, technique and use of language of the writers of different ages. 4. Analyze the growth and transformation of English Literature from period to period and to evaluate the

		connections, text, context and continuity in English Literature down the ages. 5. Evaluate the influence of the individual writers upon an age.
USENB320	ENGLISH FOR COMPETITIVE EXAMS	1. Recall basic rules of grammar 2. Understand current affairs of regional, national and international importance 3. Apply vocabulary and communication skills 4. Speak and write fluently in English 5. Analyse different verbal and reasoning ability
UCENG20	NEO-CLASSICAL LITERATURE	1. Recall the historical, social and biographical details of the Era 2. Interpret the contextual structure of the literary texts of the Era 3. Apply Critical Perspectives on the Literary Works 4. Appreciate the contribution of the Texts and explore the social, historical, artistic and literary influences of the period. 5. Analyse insights to the various literary genres of the Era.
UCENH20	ROMANTIC LITERATURE	1. Locate the historical and cultural context of English Romanticism. 2. Discuss the traits of Romanticism with emphasis on concepts of self, imagination and the unconscious 3. Apply historical, social, philosophical and political contexts to interpret texts 4. Analyse the effects of the major events in that period. 5. Evaluate the impact of Romanticism on the development of literary form and modes of expression.
UATOT20	Allied -TECHNIQUES OF TRANSLATION	1. Identify the nuances of the process of translation. 2. Explain the concepts of translation and the role of the translator. 3. Apply theoretical approaches to translate literary and non-literary texts 4. Analyse the practicality of translation and use it to develop awareness of academic writing requirements. 5. Evaluate the translated and original texts.
USENC420	SKILL BASED ELECTIVE- JOURNALISM	1. Discuss the history and principles of journalism 2. Discuss the role, duties and responsibilities of reporter, sub-editor and editor, the different press laws and acts 3. Write news articles and edit news 4. Analyse different types of news writing 5. Discuss advertisement and ethics of advertising
UCENI20	SHAKESPEARE	1. Remember the influence of the Age, Lines, Soliloquies and speeches 2. Understand the impact of the Elizabethan era, discuss and paraphrase the text 3. Apply concepts, explain & interpret, sketch character roles and situations 4. Analyze, Compare and contrast character sketches,

		<p>examine the salient features of the text</p> <p>5. Evaluate the nuances of meaning, the style and plot.</p>
UCENJ20	VICTORIAN LITERATURE	<ol style="list-style-type: none"> 1. Locate the realm of the Victorian eon in the field of Historical Literary Studies 2. Discuss the shift/transition from an Idealistic to the Realistic World of Living 3. Examine different forms/genres personalized by Victorian writers with the predominant themes of the Age 4. Analyze literary works through careful study of the Age 5. Formulate a critical hypothesis so as to write creative literary pieces on diversified perspectives.
UCENK20	THE HISTORY OF ENGLISH LANGUAGE AND LINGUISTICS	<ol style="list-style-type: none"> 1. Identify the values associated with the ways of speaking, to broaden the vocabularies and to develop appreciation of language 2. Interpret the cognitive and social dimensions of first and second language acquisition 3. Apply the tools of linguistics to analyse the sounds, words and sentences of a language 4. Analyse specific sounds and understand systematic properties of sound system of English 5. Compare and contrast languages in terms of systematic differences in phonetics, phonology, morphology and syntax.
UEENA20	ELECTIVE I A- INDIAN WRITING IN TRANSLATION	<ol style="list-style-type: none"> 1. Locate Indian literary tradition reflected in literary texts 2. Discuss the versatile culture of India. 3. Read texts in relation to their historical and cultural contexts. 4. Appreciate the diversity of literary and social voices within and sometimes marginalized by those traditions. 5. Analyse the “Indian-ness” and the writing style of the native writers.
UEENB18	ELECTIVE I B- LITERARY THEORY	<ol style="list-style-type: none"> 1. Discuss key concepts in the field of literary theory 2. Interpret texts based on Literary theories 3. Apply theoretical concepts to literary texts 4. Analyse the strength and drawbacks of various approaches 5. Evaluate literary texts and literary theories
USEND520	SKILL BASED ELECTIVE- THEATRE AND DRAMATURGY	<ol style="list-style-type: none"> 1. Identify the fact that real life and drama are inter connected and to portray the connectivity through English language. 2. Discuss theatre as a form of art referring to Classical, British, American and Indian stages 3. Use drama to showcase the problems and solutions of life. 4. Use theatre as a medium to bring out social awareness on ecological, psychological, sociological problems faced by the society. 5. Write scripts on various topics to express their ideas, feelings and concern towards mankind.
UCENL20	TWENTIETH CENTURY	<ol style="list-style-type: none"> 1. Recognise Modern Literature from a variety of cultures, languages and historic periods 2. Explain the concepts of Enlightenment, Revolution,

		<p>Capitalism/Emperialism, Democracy and political history</p> <ol style="list-style-type: none"> 3. Use the spiritual, social and intellectual background of the age to interpret the works of various writers during the Modern Age 4. Analyse various elements such as diction, tone, form, genre, imagery, figures of speech, symbolisms 5. Evaluate the elements of fiction like Narrative Technique, Setting, Themes, Style and Characterisation
UCENM20	LITERARY CRITICISM: ANCIENT TO MODERN	<ol style="list-style-type: none"> 1. Identify major theoretical/critical movements and theorists, as well as primary concepts with which they are associated 2. Discuss key terms and trace implications in source texts, the critical ideas, values, and themes that appear in literary and cultural texts 3. Apply specific theoretical concepts, theories, and terms to literary and cultural texts 4. Examine historical contexts for the development of contemporary theory and criticism 5. Evaluate the strengths and limitations of critical/theoretical arguments
UEENC20	ELECTIVE II A- WOMEN'S WRITING	<ol style="list-style-type: none"> 1. Identify the positioning, stature & development of women in the society through ages via the Literary texts 2. Discuss writing from the subordinate or subservient Creators 3. Appreciate works by women for the theme, style and form 4. Examine the form and content of the male defined concepts and women oriented concepts 5. Evaluate the works by women for its political and social relevance
UEEND20	ELECTIVE II B- PRACTICAL CRITICISM	<ol style="list-style-type: none"> 1. Remember historical, contextual, biographical and authorial details 2. Understand Criticism as theory and practice 3. Understand the relevance of history, context, biography and authorship to literary texts 4. Apply critical concepts to films and literary works. 5. Analyse various literary genres and Films
UEENE20	ELECTIVE III A- NEW LITERATURES IN ENGLISH	<ol style="list-style-type: none"> 1. Identify the relationship between Great Britain and Nations that were once colonized. 2. Describe modes of writing and reading that interrogate histories and the presence of colonial mentalities and ways of life in a variety of postcolonial locations. 3. Discuss the problems of race, class, history and identity presented in the Postcolonial texts. 4. Analyze the problems of identity, subjugation and cultural identification 5. Appraise the complex maze of theoretical terms and concepts that characterize Postcolonial studies and savor the wonderful variety and richness of Literature.
UEENF20	ELECTIVE III B- COMMUNICATIVE	<ol style="list-style-type: none"> 1. Recall the underlying 'rules' of grammar 2. Develop insight into the structure of English Language

	ENGLISH GRAMMAR	<ol style="list-style-type: none"> 3. Demonstrate understanding of linguistic structures of language variety used 4. Analyze grammatical structure of sentences within English texts 5. Apply and make use of grammar in writing English.
USEND620	SKILL BASED ELECTIVE-CRITICAL APPROACHES TO LITERATURE	<ol style="list-style-type: none"> 1. Remember seminal writers, works and ideas 2. Understand key concepts under various approaches 3. Apply critical theories for the interpretation of literary texts 4. Compare and Contrast various critical theories 5. Analyse the strength and drawbacks of various approaches
B.A. HISTORY		
UCHIA20	MAIN CURRENTS IN INDIAN HISTORY FROM EARLY TIMES TO 1526 A.D	<ol style="list-style-type: none"> 1. Describe the Geographical features of India, the Indus, Vedic, and Later Vedic Civilization to appraise the values of multi-cultures in India. 2. Critically Estimate the cause for the rise of Buddhism and Jainism in India, understand the principles of the teaching of Buddha and Mahavira, and critically value their contribution to society to become the agents of social change 3. Discuss the origin of various Dynasties that ruled India and understand the concept of invasion and to exercise leadership qualities and Teamwork. 4. Explain the Arab conquests of Sind and the contribution of the Delhi sultanate to Art and Architecture to appreciate the positive contribution of the Sultanate period and critically evaluate their Administration 5. Critically analyze the impact of the Bhakti Movement in India and to understand the concept in the respective discipline and contribute to the needs of the society
UCHIB20	MAIN CURRENTS IN INDIAN HISTORY FROM 1526 A.D TO 1707 A.D	<ol style="list-style-type: none"> 1. Explain the condition of India on the Eve of Babur's Invasion and analyze the development of Indian Culture 2. Describe the Reforms of Akbar and its impact in today's Administration 3. Compare Mughal Art and Architecture with Modern Art. 4. Analyze the Socio-Economic Condition of the Mughal Period and its impact today. 5. Classify and criticize the factors that led to the Downfall of the Mughal dynasty
UATMA20	ALLIED TOURISM -I	<ol style="list-style-type: none"> 1. Describe the evolution of travel and tourism in the historical context. 2. Analyze the socio, economic, political, and cultural aspects of society. 3. Develop professional and technical skills for effective work and integration and for sustainable development 4. Identify the networks and relationships for tourism capacity building 5. Explain the problem-solving skills and critical analysis within the multi-diverse context
UCHIC20	HISTORY OF INDIA	<ol style="list-style-type: none"> 1. Explain the advent of the Europeans and their Settlements

	FROM 1707 TO 1858 A.D	<p>in India and analyze their impact in Indian Culture.</p> <ol style="list-style-type: none"> 2. Compare and Contrast the Administration and Reforms of Warren Hastings and Lord Cornwallis. 3. Examine the social reforms of Lord William Bentinck and to become the agents of social change 4. Classify the Reforms of Lord Dalhousie and its impact in the Indian administration for the betterment of the present 5. Describe the revolt of 1857 and explain the changes in the Indian Administration
UCHID20	HISTORY OF INDIA FROM 1858 TO 1947 A.D	<ol style="list-style-type: none"> 1. Explain the condition of India after the Queen Victoria's proclamation and State the reforms of the Viceroys and understand various concepts and ideas in their administration 2. Compare and contrast the administration of Lord Ripon with Lord Curzon and contribute to the society and become leaders to become change makers 3. Examine the causes for the emergence of social reform movements and discuss the contribution of various social reform movements, to contribute towards the needs of the society. 4. Classify the various causes for the rise of National Movements in India and explain their sacrifice and list their positive social values 5. Explain the role of M.K. Gandhi in Freedom Struggle and understand the concepts in various Acts and to commit oneself for Social Justice and exercise leadership and Teamwork
UATMB20	ALLIED II TOURISM II	<ol style="list-style-type: none"> 1. Describe and analyze the concepts of Service Organizations 2. Examine the contribution of the Service Organizations 3. Analyze Tourism as the Poverty Alleviation Program 4. Illustrate the Works of the Committee in Tourism Planning Process 5. Explain the contribution of Biodiversity and Tourism Development
UCHIE20	AN OUTLINE HISTORY OF TAMIL NADU UPTO 1565 AD	<ol style="list-style-type: none"> 1. Define the Sources for the Ancient History of Tamil Nadu and Topographical division of Sangam Age. 2. Describe the Chera, Chola and Pallava Kingdoms its Socio, Economic and Cultural Condition of the Sangam Age and its impact on the development of Tamil Culture 3. Explain the Contribution of the Pandyas and the Pallavas Religion, Art and Architecture to the betterment of present time. 4. Compare the Contribution of the Imperial Cholas and the Later Pandyas in the field of Local Administration. 5. Illustrate the travel accounts of Marco Polo and Abdul Wasuf and create respect for diversity
UEHIA20	ELECTIVE-IA- HISTORY OF	<ol style="list-style-type: none"> 1. Explain the role of Nationalism in Sri Lanka and Pakistan and their development after Independence

	MODERN ASIA (1900 A.D TO 2000 A.D)	<ol style="list-style-type: none"> 2. Describe the formation of Bangladesh and Nepal Kingship 3. Illustrate the History of Malaysia and the Formation of Singapore 4. Examine the Independence of Indonesia and the Formation of new countries like Vietnam, Laos and Cambodia 5. Discuss the Independence of Philippines and Thailand and the Formation of Organizations for the Welfare of Asian Countries.
UEHIB20	ELECTIVE- I B- INTERNATIONAL RELATIONS (1945 TO 2000 A.D)	<ol style="list-style-type: none"> 1. Describe the origin, function and the achievements of the UNO and become the agents of Social Change 2. Analyze the effects of the Cold War and its impact on the International relationship 3. Discuss the origin, structure and functions of SAARC, Common Wealth, European Union and WTO to become the builders of Peace. 4. Estimate the disintegration of the USSR and its impact on the Countries. 5. Examine the Middle East Countries and their role
UAMGA21	MODERN GOVERNMENT – I	<ol style="list-style-type: none"> 1. Describe the basic concepts of the Constitution 2. Examine the nature of various types of the Government 3. Point out the working of the political institution 4. Define the organs and the functions of the Government 5. Estimate the political system of various forms of the Government
USHIA321	SKILL BASED ELECTIVE- MUSEOLOGY	<ol style="list-style-type: none"> 1. Describe about evolution of Museum and Museology 2. Classify the Types and functions of the Major Museums in the world. 3. Define the Nature and scope of Museum 4. Explain the types of museums in Tamil Nadu. 5. Identify the job opportunities for the study of museology.
UCHIF20	AN OUTLINE HISTORY OF TAMILNADU FROM 1565 TO 1987 A.D	<ol style="list-style-type: none"> 1. Describe the administration of Sethupathis and Thondaiman in the Tamil Region. 2. Trace the events leading to the European settlements in Tamil Nadu and the impact of colonial administration on the Tamil Society. 3. Analyze the contribution of Christian Missionaries to the Society and Education and its impact to present and visualize the future. 4. Compare the South Indian Rebellion with the Vellore Mutiny. 5. Evaluate the role of Tamil Nadu in the freedom struggle and create respect for freedom, diversity and other constitutional values
UCHIG20	CONTEMPORARY INDIA FROM 1947 TO 2000 A.D	<ol style="list-style-type: none"> 1. Describe the formation of Indian Polity System during the period of Nehru 2. Examine the contribution of Sastri and Indira Gandhi in the Indian political system 3. Analyze the internal development of India during Indira Gandhi and Janata Rule

		<ol style="list-style-type: none"> 4. Discuss the various internal development and issues in India during the period of Rajiv Gandhi and V.P Singh 5. Illustrate the role of politics during the period of P.V. Narasimma Rao and BJP Government.
UAMGB20	ALLIED-MODERN GOVERNMENTS - II	<ol style="list-style-type: none"> 1. Understand the Legal Structure of various Constitution 2. List out the principles relating to various Constitutions 3. Comparing and Contrast the Various Constitutions and its impact 4. State the evolution and development of Democracy through various Constitutions 5. Explain the salient features of the various Constitutions
USHIA420	SKILL BASED ELECTIVE- HISTORY OF VELLORE	<ol style="list-style-type: none"> 1. Enumerate the Historical importance of Vellore District 2. Explain the Historical changes and the administration of Nayak and Nawabs to visualize the Future 3. Describe the Administration of British Rule and their impact on Indian Culture 4. Analyze the importance of archaeological research in the historical context 5. Describe the contribution of Christian Missionaries and their services for the upliftment of downtrodden people and to become the agents of social change.
UCHIH20	HISTORY OF EUROPE FROM 1789 TO 1945 A.D	<ol style="list-style-type: none"> 1. Analyze the results of the French revolution and evaluate its impact in Present day political system and various reforms introduced by Napoleon Bonaparte to become an effective leader 2. Evaluate the causes for the outbreak of Revolution in France and the Contribution of the Congress 3. Describe the Unification of Italy and Germany and the formation of the League of Nations to create respect for basic human values and freedom 4. Describe the role of Hitler and Mussolini in the World War to commit oneself for social Justice 5. Explain the Second World War and the formation of the UNO to create respect for basic human values and freedom
UCHII20	HISTORY OF ANCIENT CIVILIZATION (EXCLUDING INDIA)	<ol style="list-style-type: none"> 1. Explain the concepts of Civilizations and analyze critically the contribution of the Egyptian and Sumerian Civilization and their role in offering best to the world 2. Analyze and understand the legacy of Babylonian, Assyrian and Chinese Civilization to the World and enhance entrepreneurial skills and to contribute to the society assuming leadership 3. Compare the Early Civilizations with Modern Civilization and to become the Agents of the Social Change and communicate the ideas and principles of Hebrew, Persian civilization 4. Discuss the beautiful idea and principles in Greek Civilization and critically analyze the legacy of Greek Civilization and gain Knowledge on the contribution of the Philosophers to the World and to become effective leaders

		and communicators 5. Trace the Contribution of Prominent Kings of Rome to the world and to appreciate their Art and Architecture and to exercise leadership and Teamwork.
UCHIJ20	INDIAN ARCHAEOLOGY	1. Explain the contribution of Western Archaeologist in the field of Indian Archaeology 2. Apply the Scientific Techniques and Method of Excavation 3. Compare the Stone Age and Megalithic Culture in India and understand the past life of the people. 4. Trace the origin and development of Numismatics, Paleography and Epigraphy and enhance their historical research. 5. Possess the knowledge of the excavated sites in Tamil Nadu and growth of Museums
UEHIC20	ELECTIVE: II A- WOMEN'S STUDIES	1. Describe the status of Women through the ages 2. Criticize the evolution of Women's rights and its impact in the life of every woman 3. Explain the importance of the international Women's Conference and National Commission for Women in India. 4. List out the Central and State Government policies and schemes for women in India and make it known 5. Discuss the role of eco-feminist and Women Environmentalists in sustainable development
UEHIC20	ELECTIVE-II B- INTELLECTUALS OF INDIA	1. Describe the contribution of social intellectuals in the field of social reformation. 2. Explain the political intellectuals and form to become effective leaders. 3. Compare the contribution of women intellectuals and analyze its impact to present and visualize the future. 4. Evaluate the scientific and Economic intellectuals and their contribution in nation building. 5. Possess the knowledge of the role played by the intellectuals in Tamil Nadu
USHIB520	SKILL BASED ELECTIVE- INTRODUCTION TO COMPETITIVE EXAMINATION	1. Define Ancient, Medieval and Modern India. 2. Discuss about the Geography, Economy of India and its impact in the development of India 3. List the role of students in preservation of Heritage Sites of India. 4. Evaluate the Basics of Computer and apply in day today career advancement 5. Discuss the Memory and Inductive Reasoning for Current Affairs and its significance for competitive exams
UCHII20	HISTORY OF JAPAN UPTO 1990 A.D	1. Describe the Early History of Japan for the betterment of Future 2. Discuss the contact of Japan with the European Countries to build relationship with diverse group 3. Analyze the Emergence of Japan as the World Powers and became the agents of Social Change. 4. Examine the Japanese identity during the World War I and

		<p>II and its impact to present and to visualize the future</p> <p>5. Illustrate the post war development of Japan and their relationship with diverse groups.</p>
UCHIL20	THE HISTORY OF UNITED STATES OF AMERICA FROM 1776 TO 1965 A.D	<ol style="list-style-type: none"> 1. Explain the causes for the American War of Independence and understand the key concepts of American Constitution and to stand for Social Justice 2. Evaluate the various causes led for the outbreak of War of 1812 and effectively communicate the ideas of Monroe Doctrine , Westward Expansion and Manifest Destiny and stand for the sustainable development of the society 3. Appraise the role played by Abraham Lincoln in Civil war to create respect for equality, freedom and respect for diversity and exercise leadership and Team Spirit 4. Analyze critically the foreign and domestic policy of Theodore Roosevelt, Woodrow Wilson, Calvin Coolidge and understand the key concepts of their administration and to emulate positive social values. 5. Assess the role of F.D Roosevelt with the implementation of New Deal during depression and commit oneself for Social justice, social values and sustainable development
UCHIM20	INDIAN POLITY AND CONSTITUTION	<ol style="list-style-type: none"> 1. Describe the Emergence and Evolution of Indian Constitution. 2. Analyze the historical background of the constitution and administration structure 3. Estimate the Indian Polity System. 4. Explain the salient features of Indian Constitution 5. Assess the social responsibilities for making a sustainable nation.
UEHIE20	ELECTIVE: III A- GEOGRAPHY OF INDIA	<ol style="list-style-type: none"> 1. Explain the foundation of Geography and its application in day today's context 2. Describe about the Themes, Traditions and types of Geography 3. State the evolution of the physical features of India 4. Estimate about the Natural Resources to commit oneself for Sustainable Development 5. Examine the prevention of Disaster and Relief measures available in India to create respect for Human Values.
UEHIE20	ELECTIVE- MONUMENTS IN INDIA	<ol style="list-style-type: none"> 1. Describe the Significance of Preservation Acts and contribute to its Preservation 2. Analyze the influence of Religious Monuments and Significance of Indian Architecture 3. Explain the workmanship of Artisans 4. List out the methods to preserve Historical Monuments. 5. Assess the patronage of Kings to Indian Culture
USHIC616	SKILL BASED ELECTIVE- ARCHIVES KEEPING IN INDIA	<ol style="list-style-type: none"> 1. State the Definition, Scope and Types of Archives and apprise it. 2. compare and contrast with the Documentation Methods of Early Times with today's Documentation and its importance

		<ol style="list-style-type: none"> Describe the Methods of Preservation of Records and enhance to Preserve Public and Personal Records list out the importance of the History of Indian Archives Keeping, and its significance Discuss about the Tamil Nadu Archives Keeping and its Functions
B.B.A		
UCBAA20	PRINCIPLES OF MANAGEMENT	<ol style="list-style-type: none"> Acquire the knowledge related to management concepts and its principles Have the knowledge about planning, decision making and its types Be able to know about planning, decision making and its types Have knowledge regarding organising, authority and delegation Acquire the knowledge related to coordination and controlling
UAOMA20	BUSINESS COMMUNICATION	<ol style="list-style-type: none"> Obtain the basic knowledge and importance of Communication Learn the components of a Business Letter and draft various kinds of Business Letters Be able to draft Bank Correspondence and Government Correspondence Write Business Reports and learns the internal communication systems Familiarize in Technology aided Business Communication
UCBAC20	ORGANIZATIONAL BEHAVIOUR	<ol style="list-style-type: none"> Equipped with the fundamental concept of Organizational Behaviour Acquire the knowledge concept of individual dimensional behaviour of the individuals Assess the attitudinal and motivational behaviour and group dynamics of an individual Understand the concept of leadership, conflict and stress level of the individuals Acquire the knowledge about the organizational Change, Climate and Culture & MBO
UABEA20	ALLIED-BUSINESS ENVIRONMENT AND ETHICS	<ol style="list-style-type: none"> Understand the Business environment Be able to inter-relate the political and legal environment in business Relate the importance of economic and financial environment to business Comprehend the vitality of Privatization, Globalization and Liberalization in the business Recognize the importance of business ethics and social responsibility in today's business
UCBAE20	MARKETING MANAGEMENT	<ol style="list-style-type: none"> Confident enough to demonstrate the bases of fundamentals of marketing and marketing mix Potentially strong in segmenting the markets based on the behavior of consumers

		<ol style="list-style-type: none"> 3. Able to identify the various types of goods and gain knowledge about the product and its features 4. Attain the knowledge of the promotion and distribution strategies 5. Adopt the optimum marketing distribution channel and salesmanship criteria.
UCBAF20	FINANCIAL ACCOUNTING	<ol style="list-style-type: none"> 1. Acquire in-depth knowledge in accounting 2. Absorb good conceptual knowledge in Accountancy 3. Be able to prepare accounts and trying out the final result of the business 4. Be capable of becoming accountant in any business organization. 5. Be capable of becoming accountant in any non-trading concern
UAEBA20	ALLIED-ECONOMICS FOR BUSINESS	<ol style="list-style-type: none"> 1. Have depth knowledge in the basics of Managerial Economics 2. Understand the choices made by a rational consumer with basic concepts of Demand and its Equilibrium 3. Attain proficiency in the Supply concepts and the cost function 4. Acquire knowledge in the production function and pricing strategies 5. Identify the key characteristics and consequences of different forms of market competition.
UEBAA20	ELECTIVE-IA-INTERNATIONAL BUSINESS	<ol style="list-style-type: none"> 1. Aware of concepts of globalization, domestic & international trade 2. Attain knowledge in the various types of International Business Environment 3. Gain in-depth knowledge about Multi-national Corporation 4. Acquire knowledge about FDI and also about Institutional support to International Business 5. Familiarize in various International Economic Institutions and social responsibility and ethical issues in international business.
UEBAB20	ELECTIVE-IB-LOGISTICS AND SUPPLY CHAIN MANAGEMENT	<ol style="list-style-type: none"> 1. Aware of the basic concepts of logistics and its types 2. Learn about the logistics decision, logistics planning and logistics cost 3. Develop an understanding of Supply Chain Management, Supply Chain Software 4. Gain knowledge about inventory, warehousing and Supply Chain Interface 5. Be enriched about the activities involved in distribution network planning and Integrated Supply Chain Management.
USBAC320/ USBAC420	SKILL BASED ELECTIVE-HOSPITAL PLANNING AND ADMINISTRATION	<ol style="list-style-type: none"> 1. Understand and attain knowledge in the planning of Modern Hospital 2. Be familiarized with Organization Structure and Medical Records of a Hospital 3. Identify the importance of Hospital Waste Management

		<ol style="list-style-type: none"> 4. Understand the Customer Experience Management 5. Acquire adequate knowledge about Clinical Support Services in Hospitals
UCBAH20	COST AND MANAGEMENT ACCOUNTING	<ol style="list-style-type: none"> 1. Gain knowledge on the concepts of management and cost accounting techniques 2. Be equipped with the knowledge for preparation of cost sheet, valuation of stock, pricing of material issues and prepare accounting for stage wise production under different process 3. Be capable of preparing, analysis and interpreting financial statements using various tools 4. Gain knowledge how to prepare fund flow statement and cash flow statement and using the same for decision making in business 5. Be able to make decisions in the form of preparing budgets and price fixation.
UCBAJ20	RESEARCH METHODOLOGY	<ol style="list-style-type: none"> 1. Know the general definition of research and qualities of research 2. Be able to distinguish the research design and to conduct statistical test of a hypothesis 3. Define the sampling design on the basis of the data 4. Understand the types of data collection and to use it for their study based on the requirement 5. Be able to write report and do statistical analysis using software packages.
UCBAK20	HUMAN RESOURCE MANAGEMENT AND DEVELOPMENT	<ol style="list-style-type: none"> 1. Integrate the knowledge of HR concepts and role of HR in the organisation 2. Attain the knowledge of the various HR functions and its importance 3. Develop deep insight into the concepts of managing talents in the organisation 4. Understand welfare and safety measures and its importance for the employees 5. Understand the importance of HR audit, HR ethics and challenges ahead of HRM.
USBAD320/ USBAD420	SKILL BASED ELECTIVE- HOTEL PLANNING AND ADMINISTRATION	<ol style="list-style-type: none"> 1. Understand the concepts in Hotel Planning and Administration 2. Acquire the acquaintance of Front Office and its operations 3. Gain knowledge on House keeping department and its operations 4. Understand the functions of control Desk and cleaning routines in hotel 5. Obtain knowledge on Horticulture and landscaping in the hotel management
UCBAL20	FINANCIAL MANAGEMENT	<ol style="list-style-type: none"> 1. Be well-versed in the financial decision, functions and organisation of financial managements 2. Come out with the practical knowledge of evaluating capital investment using traditional and modern capital budgeting methods

		<ol style="list-style-type: none"> Gain practical knowledge in calculating cost of different capitals Acquire knowledge over capital structure and work out capital structure under different approaches Gain both theoretical and practical knowledge on working capital management and Inventory management
UCBAM20	INDUSTRIAL RELATIONS	<ol style="list-style-type: none"> Understand the concept & meaning of Industrial Relations and The Payment of Wages Act, 1936 Acquire knowledge about The Factories Act, 1947 Analyse and understand the concept of The Maternity Benefit Act, 1961 Attain knowledge of The Industrial Dispute Act, 1947 Be able to absorb the concept of The Employees State Insurance Act, 1948 & The Minimum Wages Act 1948
UCBAN20	BANKING AND INSURANCE	<ol style="list-style-type: none"> Gain knowledge on banking system and its services Equip with the knowledge of RBI and its functions and importance of negotiable instruments Gain the knowledge as to how to open and operate accounts in bank and also maintaining relationship with bankers Understand the meaning of the insurance and its necessary principles Gain knowledge over different types of insurance, their applicability and benefits
UCBAP22	E-COMMERCE	<ol style="list-style-type: none"> Understand the basic concepts of e-commerce. Apply the gained knowledge on purchasing through platforms Gain knowledge about the benefits of e-payment Apply the gained knowledge of mobile commerce in the day-to-day life. Get well versed in tally and can become an accountant in any concern.
UCBAQ20	PRACTICAL : TALLY	
UCBAR20	PROJECT	
USBAE520/ USBAE620	CAMPUS TO CORPORATE	<ol style="list-style-type: none"> Gain understanding and practice of attitude, behaviour and skills required in the corporate environment Complete a professional resume that highlights their skills specific to their career field Build a solid foundation to face interviews Proactively manage the transition from being the student to the employee Deliver best at group discussions
USBAF523	SKILL BASED ELECTIVE: APPLICATIONS OF GST	<ol style="list-style-type: none"> Study the basic concepts of GST Learn the registration of tax filling Understand the GST returns Learn the composition scheme Know the input tax credit.
UCBAS20	LEGAL ASPECTS OF	<ol style="list-style-type: none"> Be thorough in the contractual relationships in business

	BUSINESS	<ol style="list-style-type: none"> 2. Understand the Indian contract act, 1872 and discuss legal remedies in case of breach of a certain contract 3. Apply basic legal knowledge to business transaction especially in sale and resale agreement 4. Gain knowledge in the regulatory framework of companies in India 5. Acquire knowledge on partnership and registration of firms
UCBAT20	PRODUCTION & MATERIALS MANAGEMENT	<ol style="list-style-type: none"> 1. Understand the concepts of production management, plant location and plant layout 2. Acquire knowledge on production planning and control, production scheduling and Maintenance management 3. Be aware of maintaining quality of products, six sigma, work study, method study and work measurement 4. Understand the concepts and techniques in materials management, purchase management, stores management, materials handling and codification of materials 5. Be familiarized about inventory control techniques and ISO certification
UCBAO20	FUNDAMENTALS OF INFORMATION TECHNOLOGY AND SYSTEM	<ol style="list-style-type: none"> 1. Well-versed in the basics of information system and technology 2. Understand programming languages to coordinate the operative and management functions 3. Equip with the practical knowledge of information technologies and implement in their organisation 4. Acquire knowledge over the basic concepts of information systems and can implement in their organisation 5. Gain knowledge on all the management functions inculcating with IS and IT
UEBAC20	TOTAL QUALITY MANAGEMENT	<ol style="list-style-type: none"> 1. Evaluate the principles of quality management and to explain how these principles can be applied within quality management systems 2. Identify the key aspects of the quality improvement cycle and to select and use appropriate tools and techniques for controlling, improving and measuring quality 3. Critically appraise the organizational, communication and teamwork requirements for effective quality management 4. Know the concept of benchmarking and total productive maintenance in the organization 5. Identify key challenges in implementing TQM and maintain standardization
UEBAD20	ENTREPRENEURIAL DEVELOPMENT	<ol style="list-style-type: none"> 1. Have the ability to discern entrepreneurial traits 2. Know the different entrepreneur and supporting institution and Write a business plan 3. Know the parameters to assess opportunities for new business ideas 4. Identify the various forms of entrepreneur and to correlate which form of business will suit their need 5. Understand the environment and to apply the strategies to enter into new market

USBAF520/ USBAF620	APPLICATIONS OF GST	<ol style="list-style-type: none"> 1. Study the basic concepts of GST 2. Learn the registration of tax filling 3. Understand the GST returns 4. Learn the composition scheme 5. Know the input tax credit
UGBAA520/ UGBAA620	NON-MAJOR ELECTIVE: HUMAN RESOURCE MANAGEMENT	<ol style="list-style-type: none"> 1. Integrate the knowledge of HR concepts 2. Apply the gained knowledge of Recruitment, Selection and Training in their career 3. Be able to implement and evaluate the requirements of performance appraisal and training of the employees 4. Gain knowledge over welfare measures and safety measures of the employees 5. Equip with the knowledge of the challenges of HR and talent management
USBAA120/ USBAA220	LIFE STYLE MANAGEMENT	<ol style="list-style-type: none"> 1. Be equipped with the talent of self management 2. Acquire the skills of Stress management 3. Be able to manage time 4. Be able to tackle and manage various situations 5. Familiarized in the skills of Career Management
USBAB120/ USBAB220	WINNING THROUGH COMMUNICATION	<ol style="list-style-type: none"> 1. Be able to understand the concepts in communication 2. Attain skill in writing letters and resume 3. Be trained in drafting business correspondence 4. Able to draft effective business report with brevity and clarity 5. Gain confidence in various career development initiatives like Group Discussion, Role play and interviewing techniques
B.C.A		
UCCAA20	PROGRAMMING IN C	<ol style="list-style-type: none"> 1. Introduce the students to understand the concept of basic programming- thereby reducing the design complexity and increasing the reusability of a component. 2. Construct the basic structure of C-programming, declaration and usage of variable. 3. Understand and develop conditional and iterative statements to write programs. 4. Exercise C programs that use array and string. 5. Develop user defined functions to solve real time problems
UCCAB20	FUNDAMENTALS OF INFORMATION TECHNOLOGY	<ol style="list-style-type: none"> 1. Understand the fundamental concepts of computers with the present level of knowledge of the students. 2. Identify the basic terminology used in computer programming. 3. Understand the basic taxonomy and terminology of the data communication networking. 4. Acquire the knowledge of Internet and its applications 5. Analyze the difference between an operating system and an application program.
UCCAC20	PRACTICAL I: C	<ol style="list-style-type: none"> 1. Exercise with basic structure of the C program, declaration and usage of variable. 2. Resolve mathematical and scientific problem.

		<ol style="list-style-type: none"> 3. Develop the programs using conditional and iterative statements. 4. Implement array and string concept in C program. 5. Write real time problems using user defined functions
UCCAD20	PYTHON	<ol style="list-style-type: none"> 1. Understand the Numbers, Math functions, Strings, List, Tuples and Dictionaries in Python 2. Express different Decision-Making statements and Functions 3. Interpret Object oriented programming in Python 4. Explain how to design GUI Applications in Python and evaluate different database operations 5. Design and develop Client Server network applications using python
UCCAE20	COMPUTER ORGANIZATION AND ARCHITECTURE	<ol style="list-style-type: none"> 1. Explain the organization of basic computer, its design and the design of control Unit. 2. Elaborate advanced concepts of computer architecture, Parallel Processing, Inter-processor communication and synchronization. 3. Demonstrate the working of central processing unit and RISC and CISC Architecture. 4. Describe the operations and language the register transfer, micro operations and input- output organization. 5. Understand the organization of memory and memory management hardware
UCCAF20	PRACTICAL V: PYTHON	<ol style="list-style-type: none"> 1. To Understand the Numbers, Math functions, Strings, List, Tuples and Dictionaries in Python 2. Express different Decision Making statements and Functions 3. Interpret Object oriented programming in Python 4. Explain how to design GUI Applications in Python and evaluate different database operations 5. Design and develop Client Server network applications using python
UCCAG20	DATA STRUCTURES	<ol style="list-style-type: none"> 1. Discuss the concept of complexity of algorithms, data types, algorithms, Big O notation. 2. Apply basic data structures such as arrays, linked lists, stacks and queues. 3. Identify problem involving trees and binary search trees. 4. Apply Algorithm for solving problems like sorting, searching, insertion and deletion of data using linked list. 5. Analyze graphs and describe the hash function and concepts of collision and its resolution methods.
UCCA20	JAVA PROGRAMMING	<ol style="list-style-type: none"> 1. Able to understand the use of OOPs concepts. 2. Able to solve real world problems using OOP techniques. To understand the use of polymorphism and Inheritance. 3. Able to understand the use of Packages and Interface in java. 4. Able to develop and understand exception handling, multithreaded applications with synchronization.

		5. Able to design GUI based applications and develop AWT and applets for web applications.
UCCAI20	DESIGN AND ANALYSIS OF ALGORITHMS	<ol style="list-style-type: none"> 1. Define the basic concepts of algorithms and analyze the performance of algorithms. 2. Discuss various algorithm design techniques for developing algorithms 3. Identify the usage of set of rules design methods including the greedy approach, divide and overcome, dynamic programming, and certain. 4. Understand the variations among backtracking, graph coloring and 8 Queens problems 5. Understand NP completeness and identify different NP complete problems
UCCAJ20	PRACTICAL - III: JAVA	<ol style="list-style-type: none"> 1. Understand the fundamentals of object-oriented programming in Java, including defining classes, objects, invoking methods etc and I/O Streams. 2. Establish exception handling is used to minimize the errors in Java programming. 3. Demonstrate the concepts of Packages and Interface. 4. Evaluate the Java programs to implement error handling techniques using exception handling. 5. Design GUI based applications and develop applets for web applications.
UCCAK20	PRACTICAL: DATA STRUCTURES AND ALGORITHMS	<ol style="list-style-type: none"> 1. Implement PUSH, POP and Add and delete operations of Stack using Arrays. 2. Explore the Infix to postfix conversion and binary tree traversals and its algorithms like depth first and breadth first traversal 3. Understanding polynomial addition and merge sort using Divide and Conquer Technique. 4. Implement travelling Salesman problem using Dynamic programming and hashing with two collision techniques. 5. Implement PUSH, POP and Add and delete operations of Stack using Arrays.
USCAA320	SKILL BASED ELECTIVE- ACCOUNTING SOFTWARE	<ol style="list-style-type: none"> 1. Understand the basics in Tally and company creations 2. Creating vouchers, ledgers accounts, Balance Sheet 3. Demonstrate Profit And Loss Account and Reconciliation of the bank account. 4. Create company accounts that use various functions like Cost Category and Cost Centre 5. Learn to apply the tools & techniques in the interpretation of data for managerial decision – making.
UCCAL20	DATA COMMUNICATIONS AND NETWORKING	<ol style="list-style-type: none"> 1. Describe the Functions of each layer in OSI and TCP/IP Model. 2. Explain the types of Transmission Media with Real-Time Applications. 3. Apply Time and Frequency concept of analysis. 4. Manage Network functions for an organization. 5. Analyze various Routing Algorithms and Protocols.

UCCAM20	OPERATING SYSTEM	<ol style="list-style-type: none"> 1. Acquire the important computer system resources and the role of operating system in their management policies and algorithms 2. Understand the process management policies and scheduling of processes by CPU. 3. Evaluate the requirement for process synchronization and coordination handled by operating system 4. Describe and analyze the memory management and its allocation policies 5. Entity use and evaluate the storage management policies with respect to different storage management technologies
UCCAN20	.NET PROGRAMMING	<ol style="list-style-type: none"> 1. Understand the concepts of .NET Framework and C#. 2. Apply the usage of Methods, Arrays and Strings. 3. Interpret the concepts of Constructors, Inheritance and Interfaces. 4. Analyze Operator Overloading, Delegates, Events and Exceptions. 5. Create Windows Applications and Web - based Applications.
UCCAO20	PRACTICAL V: LINUX	<ol style="list-style-type: none"> 1. Become familiar with the C language, gcc compiler, and make files to understand the high-level structure of the Linux kernel. 2. Understand the high-level structure of the Linux kernel both in concept and source code. 3. Acquire a detailed understanding of one aspect (the scheduler) of the Linux kernel 4. To learn to develop software for Linux systems. 5. To obtain a foundation for an advanced course in operating systems.
UCCAP20	PRACTICAL VI: .NET	<ol style="list-style-type: none"> 1. Understand code solutions and compile C# projects within the .NET framework. 2. Create user interactive web pages using .NET. 3. To develop, implement and creating Applications with C#. 4. Debug, compile, and run a simple application. 5. Create Mobile Application using .NET compact Framework
USCSB420	SKIL BASED ELECTIVE- DESIGN AND ANIMATION	
UCCAQ20	RELATIONAL DATABASE MANAGEMENT SYSTEMS	<ol style="list-style-type: none"> 1. Demonstrate an understanding of the elementary & advanced features of DBMS & RDBMS 2. Write the SQL commands to create tables and Triggers, insert/update/delete data, and query data in a relational DBMS. 3. Analyze and Design a database based on a data model considering the normalization to a specified level. 4. Apply the storage size of the database and design

		<p>appropriate storage techniques.</p> <p>5. Analyze the requirements of transaction processing, concurrency control Analyze and XML Structure</p>
UCCAR20	SOFTWARE ENGINEERING	<p>1. Apply the software engineering lifecycle by demonstrating competence in communication, planning, analysis, design, construction, and deployment.</p> <p>2. Discuss the function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives</p> <p>3. Manage the time, processes and resources effectively by prioritizing competing demands to achieve personal and team goals Identify and analyzes the common threats in each domain.</p> <p>4. Understand architectural design in order to minimize the risks and errors.</p> <p>5. Test the techniques for ensuring high quality software and understand the capabilities of cost estimation.</p>
UCCAS20	MOBILE APPLICATION DEVELOPMENT	<p>1. Understanding of Android and Android SDK and know about its development environment. Recognize the architecture of Android and its tools. Analyze Eclipse and Android Development Tools(ADT).</p> <p>2. Understanding of the specific requirements, possibilities and challenges when developing for a mobile context.</p> <p>3. Understanding of the interaction between user interface and underlying application infrastructure.</p> <p>4. Define to plan and carry out a design work including developing a prototype that can be evaluated with a specified user group.</p> <p>5. Develop practical skills and knowledge to construct software for a mobile application and the ability to reflect over possibilities and demands in collaborative software development.</p>
UECAA20	ELECTIVE-IA-RESOURCE MANAGEMENT TECHNIQUES	<p>1. Identify the role of computer in Operational Research techniques.</p> <p>2. Apply linear programming to solve real-life applications.</p> <p>3. Analyze Transportation Model and Solve optimization problems using dual simplex method.</p> <p>4. Describe Assignment Model and Travelling Salesman Problem, Sequencing problem</p> <p>5. Use PERT and CPM for problems in project management</p>
UECAB20	ELECTIVE I B: CLOUD COMPUTING	<p>1. Understand the fundamental concepts in cloud computing technologies.</p> <p>2. Analyze and integrate the cloud enabling services.</p> <p>3. Analyze the architecture and concept of different cloud models: IaaS, PaaS, SaaS.</p> <p>4. Understand and familiar with the deployment models.</p> <p>5. Comprehend the Cloud Data Security concepts and how they are addressed with the security mechanisms.</p>

UECAC20	ELECTIVE I C: OBJECT ORIENTED ANALYSIS AND DESIGN	<ol style="list-style-type: none"> 1. Analyse, design, document the requirements through use case driven approach. 2. Identify, analyse, and model structural and behavioural concepts of the system. 3. Develop, explore the conceptual model into various scenarios and applications. 4. Apply the concepts of architectural design for deploying the code for software. 5. Apply the Testing Strategies and Debugging Principles for measuring the User Satisfaction
UCCAT20	PRACTICAL - VII: RDBMS	<ol style="list-style-type: none"> 1. Understand, Appreciate and effectively explain the underlying concepts of Database technologies. Programming PL/SQL including stored procedures, stored functions, cursors, packages. 2. Attain a good practical understanding of the Oracle. 3. Design and implement a database schema for a given problem-domain. 4. Construct a query using SQL DDL, DML, and DCL Commands. 5. Prepare various database tables and joins them using SQL commands. Analyze various aggregate functions using SQL commands 6. Design and develop front end tool VB .NET to design forms, and select, insert, delete, update using Data Source Binding.
UCCA20	PRACTICAL VIII: MOBILE APPLICATION DEVELOPMENT	<ol style="list-style-type: none"> 1. Establishing the development environment 2. Implementing the layout to add actionbar 3. Understanding the interfaces using views, menus and notification 4. Apply and learn multiple screens to emulate android application 5. Perform basic interaction with application.
UCCAV20	INTERNET AND WEB PROGRAMMING	<ol style="list-style-type: none"> 1. Acquire the basic concept of JavaScript. 2. Use operators, variables, arrays, control structures, functions and objects in JavaScript. 3. Create PHP programs that use various PHP library functions, and that manipulate files and directories. 4. Design a responsive web site using HTML, PHP, MySQL and Apache. 5. Students will be able to build dynamic web pages using JavaScript (Client Side Programming) and apply their knowledge to create interactive websites.
UCCAW20	DATA MINING	<ol style="list-style-type: none"> 1. Understand Data Warehouse fundamentals and Data Mining Principles 2. Understand and implement classical algorithms in data mining and identify the application area of algorithms. 3. Compare and evaluate different data mining techniques like, prediction, clustering and association rule mining 4. Describe complex data types with respect to spatial and

		<p>web mining.</p> <p>5. Analyze the temporal mining techniques to detect patterns in the e-world.</p>
UECAD20	ELECTIVE – II A: CRYPTOGRAPHY	<p>1. Classify the symmetric encryption techniques</p> <p>2. Illustrate various public key cryptographic techniques</p> <p>3. Evaluate the authentication and hash algorithms.</p> <p>4. Summarize the intrusion detection and its solutions to overcome the attacks.</p> <p>5. Basic concepts of system level security.</p>
UECAE20	ELECTIVE II B: COMPUTER GRAPHICS	<p>1. Understand the basic objectives and scope of computer graphics</p> <p>2. To acquire knowledge on graphics hardware devices and software used.</p> <p>3. Implement various algorithms to scan, convert the basic geometrical primitives, Transformations, Area filling, clipping.</p> <p>4. Understand the concepts of and techniques used in 2D and 3D computer graphics, including viewing transformations, hierarchical modeling, color, lighting and texture</p> <p>5. Understand the concepts of computer graphics, including viewing, projection, Perspective, modeling and transformation in two and three dimensions.</p>
UECAF20	ELECTIVE - III A: MOBILE COMPUTING	<p>1. Understand the basic concepts of mobile computing.</p> <p>2. Expand the network layer protocols and AdHoc networks.</p> <p>3. Apply the basis of transport and application layer protocols.</p> <p>4. Develop knowledge about different mobile platforms and application development.</p> <p>5. Analyze security, energy efficiency, mobility, scalability, and their unique characteristics in wireless networks.</p>
UECAG20	ELECTIVE – III B: ARTIFICIAL INTELLIGENCE	<p>1. Understanding different types of AI Agents and its Environments.</p> <p>2. Know Various AI Search Algorithms (uninformed, informed, heuristic search).</p> <p>3. Understand the fundamentals of Knowledge representation (logic based, frame based).</p> <p>4. Understand the different types of Learning.</p> <p>5. Ability to apply knowledge representation, reasoning, and machine learning Techniques.</p>
UCCAX20	PRACTICAL X: INTERNET AND WEB PROGRAMMING	<p>1. Know variable naming rules and JavaScript data types.</p> <p>2. Use operators, variables, arrays, control structures, functions and objects in JavaScript.</p> <p>3. Demonstrate objects and arrays usage</p> <p>4. Create PHP programs that use various PHP library functions, and that manipulate files and directories.</p> <p>5. Validate user input and create cookies in PHP.</p>
UCCAY20	PROJECT WORK	
USCSG520	SKILL BASED ELECTIVE:	<p>COURSE OBJECTIVES</p> <p>1. Understand the usage of R programming interactive</p>

	R PROGRAMMING	<p>environment.</p> <ol style="list-style-type: none"> Understand R programming language includes functions, arrays and dataframes. Describe the statistical computing includes programming in R, reading and accessing data in R. Understand the concept of Meta Programming. Build a simple sorting algorithm.
USCSF620	SKILL BASED ELECTIVE: DATA ANALYTICS USING DATA VISUALIZATION TOOLS	<p>COURSE OBJECTIVES</p> <ol style="list-style-type: none"> To understand and extend the current state of the art in data visualization. To Understand the different data format and its graphical representation To Identify the various data visualizations tools in the market and its features. To provide skills present data effectively through chart, map and dashboard. To Develop skills to present data effectively through chart, map and dashboard.
B.COM		
UCC0A20	PRINCIPLES OF ACCOUNTING- I	<ol style="list-style-type: none"> Gain knowledge about the basic accounting principles, concepts and conventions. Write day books, prepare Ledger Accounts and verify the Trial Balance. Prepare different types of subsidiary books and prepare relevant ledger accounts. Analyze difference between cash book and bank pass book by preparing Bank Reconciliation Statement. Identify the various errors and rectify them in the books of accounts.
UCCOC20	PRINCIPLES OF ACCOUNTING-II	<ol style="list-style-type: none"> Prepare Accounts based on Single Entry System and understand the difference between single entry and double entry system. Calculate average due dates and prepare account current through different methods. Calculate depreciations of assets through different methods and ascertain the value of assets. Understand the Meaning of Joint Venture and prepare related accounts in the books of related parties. Understand the meaning of Consignment of goods, prepare the necessary accounts and ascertain the Profit or loss.
USCOA120/ USCOA220	SKILL BASED ELECTIVE- CONSUMER AWARENESS	<ol style="list-style-type: none"> Students gain an insight knowledge on consumer awareness movement and FSSAI 2006. Students were familiarised with the rights of consumers. Students gained thorough knowledge in handling grievances and its redressal measures. Students were well versed in filing the complaints and appeals. Students gained conceptual knowledge on the social

		responsibilities of the consumers.
UCCOE20	FINANCIAL ACCOUNTING I	<ol style="list-style-type: none"> 1. Students acquired conceptual knowledge on Branch accounts and its systems. 2. Students were familiarised with the scope and dimensions of Departmental Accounting. 3. Students gain an insight knowledge on the preparation of Hire Purchase and Instalment Systems. 4. Students gained thorough knowledge in the accounting treatments to be applied in the preparation of Royalty Accounts. 5. Students were well versed in the methods of recording the Investment Accounts.
UCCOF20	PRINCIPLES OF COST ACCOUNTING	<ol style="list-style-type: none"> 1. Understand the ideas of costing, retrieving the concept to prepare tenders & Quotations. 2. Executing the essence of material control, maintaining stock ledgers and various pricing methods. 3. Exemplifying the concept of calculating labour cost, wages and incentives. 4. Understand the concept of indirect expenses(Over heads) and its impact in production. 5. Applying the procedure to allocate and apportion various Overheads
UCCOG20	LAW OF CONTRACT - I	<ol style="list-style-type: none"> 1. Students acquired conceptual knowledge on essential elements of the contract. 2. Students were familiarised with the competence of parties to enter into a valid contract. 3. Students gained an insight knowledge on the legality of the contract. 4. Students gained thorough knowledge in the performance of a contract. 5. Students were well versed in the principal-agent relationship.
UECOA20	ELECTIVE-PRINCIPLES OF MANAGEMENT	<ol style="list-style-type: none"> 1. Learn the concept and understand the principles and managerial skills. 2. Impart knowledge in planning, diagnosing and solving organizational problems and developing optimum managerial solutions. 3. Gain knowledge in organizing and delegating authority under various structures. 4. To identify and analyse attributes that motivate to work under different leadership styles. 5. To become versatile in co-ordinating and developing the skill of effective communication.
UECOB20	ELECTIVE-ESSENTIALS OF BUSINESS COMMUNICATION	<ol style="list-style-type: none"> 1. Become versatile in business communication. 2. Acquire knowledge on drafting business letters. 3. Compose bank correspondence letters. 4. Understand the importance of report writing in organisations.

		5. Apply skills in writing resume, job applications and to face interviews.
USCOB320	SKILL BASED ELECTIVE ADVERTISING & SALES PROMOTION MANAGEMENT	<ol style="list-style-type: none"> 1. Students acquired conceptual knowledge on advertising. 2. Students were able to identify different advertising media. 3. Students gained an insight knowledge on the visualization of advertisement and procedure of copywriting. 4. Students gained thorough knowledge in measuring advertising effectiveness. 5. Students were well versed in managing sales through advertising.
UCCOH20	FINANCIAL ACCOUNTING II	<ol style="list-style-type: none"> 1. Students gained knowledge in computing the loss of stock or loss of profits under fire insurance claims. 2. Students were able to prepare the Statement of Affairs and Deficiency accounts under Insolvency system. 3. Students gained knowledge on applying the various concepts relating to partnership accounts. 4. Students were familiarised to choose different modes of Dissolution of Partnership firms. 5. Students were able to differentiate the different methods of preparation under Pirece meal Distribution System.
UCCOI20	METHODS OF COST ACCOUNTING	<ol style="list-style-type: none"> 1. Acquire conceptual knowledge of process costing and its treatment. 2. Identify the methods of apportionment according to the impact of business. 3. Identify and analyze the costs incurred in contract costing and job costing. 4. Understand and apply the methods of calculating transport cost. 5. Differentiate and compare the cost and financial books to reconcile the accounts.
UCCOJ20	LAW OF CONTRACTS II	<ol style="list-style-type: none"> 1. Students acquired conceptual knowledge on sales and consumer protection act. 2. Students were familiarised with the performance of valid contract. 3. Students gained an insight knowledge on special contracts. 4. Students gained thorough knowledge incorporation of companies. 5. Students were well versed in the internal affairs of the companies.
UCCOK20	MARKETING	<ol style="list-style-type: none"> 1. Classify the various marketing activities and to summarize consumer behavior and decision making process. 2. Evaluate the strategies used by the marketers to sustain a product for longer period.

		<ol style="list-style-type: none"> 3. Familiarise the factors influencing pricing decisions. 4. Acquire knowledge on various promotional mix used by marketers to promote goods and services. 5. Understand the various methods of channels of distribution and familiarize with latest Technologies.
USCOC420	Skill Based Elective - ENTREPRENEURIAL DEVELOPMENT	<ol style="list-style-type: none"> 1. Students understand the basic concepts of entrepreneurship and its functioning. 2. Students were able to select the best financial institutions for business as per the needs. 3. Students generated best innovative business ideas. 4. Students bridged the gap between Government and entrepreneurs. 5. Students made an impact on the development of economy.
UCCOL20	CORPORATE ACCOUNTING I	<ol style="list-style-type: none"> 1. Gain knowledge on the procedure of issue of shares and redemption of shares. 2. Understand the meaning and formalities of issues of debentures and underwriting of shares and debentures 3. Become proficient in preparing company final account as per the rules of Company Act 4. Know about the importance of Profit Prior to incorporation and their allocation. 5. Calculate Purchase consideration during the event of amalgamation, absorption and external reconstruction
UCCOM20	MANAGEMENT ACCOUNTING I	<ol style="list-style-type: none"> 1. Understand the importance of management accounting and the installation of management accounting system 2. Analyze various financial statements and application of various ratio's 3. Interpret inflow and outflow of funds in computation of fund flow statement 4. Report on cash flow analysis. 5. Prepare different budgets.
UCCON20	INCOME TAX LAW AND PRACTICE I	<ol style="list-style-type: none"> 1. Students gained knowledge on the basic concepts of Income Tax. 2. Students became familiar with the provisions relating to Income from Salaries. 3. Students learnt to compute taxable Income from House Property. 4. Students became competent in computing Income from Business or Profession. 5. Students were familiarized with the powers and duties of different income tax authorities and their assessment procedure.
UECOC520 / UECOC620	ELECTIVE- BANKING: LAW AND PRACTICE	<ol style="list-style-type: none"> 2. Gain versatile knowledge on features, functions of banking. Operate various accounts as Per KYC norms.

		<ol style="list-style-type: none"> Discern knowledge on the relationships between banker and customer. Analyze the concept of money laundering. Gain in-depth knowledge on negotiable instruments and rights and duties of paying and Collecting banker Impart knowledge on various types of loans & advances. Modes of charging securities. analyze the mechanism of customer grievance Execute and apply the modern technologies for making payments and other technological services.
UCCOO20	CORPORATE ACCOUNTING II	<ol style="list-style-type: none"> Value Goodwill and shares of Company through different methods. Prepare the statement of affairs and Liquidators final statement of Accounts Get a comprehensive knowledge about the latest provisions of companies Act relating to consolidation of Holding and Subsidiary Company Gain expertise knowledge in the preparation of final accounts of General Insurance Companies as per the revised AS of IRDA. Prepare Profit & Loss and final Accounts of Banking Companies as per the Guidelines of RBI
UCCOP20	MANAGEMENT ACCOUNTING II	<ol style="list-style-type: none"> Understand Various Elements of Marginal Costing and Break Even Analysis. Get Familiar with different Managerial Decision Making Techniques and its Practical Applicability Apply norms of Variances Relating to Cost Compute Capital Budgeting under different Methods Know the importance of Responsibility Accounting and Zero Based Budgeting
UCCOQ20	INCOME TAX LAW AND PRACTICE II	<ol style="list-style-type: none"> Students learnt to determine the Income from Capital Gains. Students acquired the skill in calculating the Income from Other Sources. Students were well versed in ascertaining the provisions relating to Clubbing of Incomes and set off and carry forward of losses. Students were able to assess the total income and tax liability of individual assesses. Students gained practical knowledge on filing of returns of income.
UECOD520/ UECOD620	ELECTIVE: ELECTRONIC COMMERCE AND TALLY	<ol style="list-style-type: none"> To know the various concepts of e-commerce. Awareness gained on the aspects of e-commerce, the usage of internet technologies Executing different security, OSI models Imbibe knowledge on various payment models and its application In depth knowledge on Tally hands on training to create a

		company and preparation of final accounts.
USCOD520/ USCOD620	SKILL BASED ELECTIVE- CONSUMER GUIDE AND EMPOWERMENT	<ol style="list-style-type: none"> 1. Gain knowledge on Consumer Movement 2. Apprehend Knowledge on Right to Information act 3. Acquire Theoretical Knowledge Consumer Protection act 4. Know About FSSAI 2006 Act 5. Have In-Depth Knowledge on Certification Marks
USCOE520/ USCOE620	SKILL BASED ELECTIVE- PRACTICAL AUDITING	<ol style="list-style-type: none"> 1. Students acquired conceptual knowledge on basic audit principles. 2. Students were familiarized with the preparation of audit programmes for various situations. 3. Students gained an insight knowledge on different audit evidence. 4. Students were well versed in methodology of internal audit. 5. Students were able to differentiate between vouching and verification.
UAAFA20	ALLIED- ACCOUNTING FUNDAMENTALS-1	<ol style="list-style-type: none"> 1. Adopt the rules of Double entry system in sorting and preparing Accounts. 2. Understand the Accounting Cycle and prepare various accounts and to check Accounting errors. 3. Calculate and explain financial Accounts to reveal the profits/losses of an organization and also to evaluate the values of Assets and Liabilities. 4. Charge Depreciation on assets under straight line and written down value methods. 5. Differentiate Single entry & Double entry and ascertain the net worth of a business.
UAAFB20	ALLIED- ACCOUNTING FUNDAMENTALS-II	<ol style="list-style-type: none"> 1. To introduce the students with different forms of business and its Accounting Concepts. 2. To teach them to prepare accounts for partnership fundamentals, admission, retirement and death. 3. To practice them with the accounting techniques to prepare accounts for Various Branches, Departments to analyze the profits /Losses. 4. To make students aware about Hire purchase and installments system and make them to prepare accounts.
UGCOA520/ UGCOA620	NON MAJOR ELECTIVE-BOOK KEEPING AND ACCOUNTING	<ol style="list-style-type: none"> 1. Students acquired conceptual knowledge on accounting rules and its concepts. 2. Students were familiarised with the preparation of basic accounts. 3. Students gained an insight knowledge on preparation of various subsidiary books. 4. Students were well versed in analysing different types of errors 5. Students were able to prepare final accounts with different adjustments.

BIOCHEMISTRY

UCBCA20	BIOORGANIC CHEMISTRY	<ol style="list-style-type: none">1. Outline the structure, properties and biological importance of carbohydrates.2. Classify the structure and functions of amino acids along with proteins.3. Build an idea about the role of lipids in the living system.4. Assess the structural features of genetic material.5. Explain the crucial role of vitamins and minerals for maintaining healthy life.
UCBCB20	CELL BIOLOGY	<ol style="list-style-type: none">1. Describe cell as the basic unit of life, its structural organization and cytoskeleton2. Develop knowledge about the functions of various subcellular organelles3. Identify the type of cell division processes and its significance4. Recall on the components of cell membrane and its role in maintaining cell function5. Examine clearly about the mechanism of transport across the membrane
UCBCC20	MAIN PRACTICAL – I	<ol style="list-style-type: none">1. Apply the safety rules in the laboratory2. Use the measuring technique to weigh the compounds3. Analyses quantitatively the biomolecules and mineral components4. Identify the carbohydrate and amino acids qualitatively5. Explain the idea on the cell division process
UCBCD20	BIOCHEMICAL TECHNIQUES	<ol style="list-style-type: none">1. Develop the ability to apply the principles of biochemical techniques2. Compare the difference between various methods of chromatography3. Explain how electrophoresis and centrifugation facilitates the separation of molecules4. Analyse certain functionalities of bio molecules by using spectroscopic techniques5. Compare natural and artificial radiation source and its importance
UCBCE20	PHYSIOLOGY AND NUTRITION	<ol style="list-style-type: none">1. Outline the mechanism of breathing and the circulatory system2. Describe the basic components and functions of the digestive system3. Compile the functions of the urinary system and the physiology of muscle4. Explain the central and peripheral nervous system organization5. Identify the nutrients in food and their functions in maintaining health
UCBCF20	MAIN PRACTICAL - II	<ol style="list-style-type: none">1. Work safely and effectively in a laboratory2. Implement experimental protocol, and adapt them to plan and carry out simple colorimetric estimation3. Explain the basic principles involved in isolation of bio

		<p>molecules from various source</p> <p>4. Analyse, interpret and report the results of their biochemical experiments</p>
UCBCG20	ENZYMES AND INTERMEDIARY METABOLISM	<p>1. Describe the properties, hypothesis and IUB classification of enzymes</p> <p>2. Discuss the kinetics of enzyme catalyzed reactions, enzyme immobilization and applications of enzymes and their future potential</p> <p>3. List the major pathways of carbohydrates metabolism and discuss their bioenergetics and regulation</p> <p>4. Compile the catabolism of amino acid and metabolism of lipids with their significance</p> <p>5. Revise the metabolic activity of tissues and organ with their function</p>
UCBCH20	ENDOCRINOLOGY	<p>1. Identify the various endocrine glands, morphology and their relevant hormones secreted</p> <p>2. Know the chemical nature and structure of Hormones</p> <p>3. Demonstrate the mechanisms of hormone action</p> <p>4. Explain the functions of hormones</p> <p>5. Analyze the clinical disorders of hormones.</p>
UEBCA20	ELECTIVE I A: IMMUNOLOGY	<p>1. Outline the cell types and organ present in the immune response</p> <p>2. Identify the role of MHC antigens</p> <p>3. Discuss the basic techniques of antigen and antibody interactions</p> <p>4. Compare the spectrum of autoimmune diseases</p> <p>5. Explain the stages of transplantation</p>
UEBCB20	ELECTIVE I B: ENVIRONMENTAL TOXICOLOGY	<p>1. Explain the properties of pollutants, effects, origin and occurrence in the environment</p> <p>2. Use clinical and laboratory findings in the treatment of acute toxic exposures</p> <p>3. Compare and interpret the results of occupational exposure assessments within the context of safety assessments</p> <p>4. Identify signs and symptoms of important toxic syndromes</p> <p>5. Discuss the role of poison information services and systems for the surveillance of Poisoning</p>
USBCC20	SBE: ENTREPRENEURIAL BIOCHEMISTRY	<p>1. Explain the theory of entrepreneurship and its practical implementation</p> <p>2. Explore and experience the joy of creating small business ideas</p> <p>3. Identify strategic marketing planning and mobilize resources for future growth, development and protection of their enterprise</p> <p>4. Implement market opportunities into business plan</p> <p>5. Re-construct and build a mindset focusing on unique approach to market opportunities</p>
UCBCI20	MOLECULAR BIOLOGY	<p>1. Demonstrate the nature of Genes</p> <p>2. Analyze the blueprint of life</p> <p>3. Describe the mechanism of replication</p>

		<ol style="list-style-type: none"> 4. Illustrate the mechanism of Transcription 5. Demonstrate the features of Genetic code and mechanism of Translation
UEBCC20	ELECTIVE II A: CLINICAL BIOCHEMISTRY	<ol style="list-style-type: none"> 1. Discuss the disorders of carbohydrate metabolism 2. Outline the role of serum lipids 3. Describe the types of jaundice and serum enzyme activities in diseases 4. Identify various renal disorders and examination of gastric residuum 5. Compare the application of diagnostic enzymes
UEBCD20	PHARMACOLOGY	<ol style="list-style-type: none"> 1. Classify different dosage forms of drug 2. Discuss the basic understanding of detoxification mechanisms 3. Compare the structure and uses of antibiotics available 4. Outline the clinical applications, side effects and toxicities of cardiovascular drugs 5. List out commonly used analgesic and anesthetic drug classes.
UEBCE20	ELECTIVE III A: BIOTECHNOLOGY	<ol style="list-style-type: none"> 1. Recall the steps involved in recombinant DNA technology 2. Outline the role of vector in gene technology and explain the construction of Genomic and cDNA library and their importance 3. Explain the principles of plant tissue and animal cell culture and summarize the methods used to produce transgenic plants and animals 4. Identify and debate the ethical and social issues in the field of biotechnology and get insight in application of rDNA technology 5. Discuss the various aspects of bioprocess technology
UEBCF20	ELECTIVE III B: PLANT BIOCHEMISTRY	<ol style="list-style-type: none"> 1. Describe the structural features of plant cell and phytohormones 2. Outline the types of photosynthetic pigments 3. Create the impact of nitrogen, sulphur and carbon cycle on nature 4. Compile the mechanism of seed germination 5. Identify the antioxidant potential and role of secondary metabolites
USBCD20	SBE- IV - MEDICAL LABORATORY TECHNOLOGY	<ol style="list-style-type: none"> 1. Outline the organization of a laboratory for its efficient functioning 2. Discuss the various methods of blood collection and its preservation 3. Evaluate the significance of urine analysis and its correlation with disease 4. Demonstrate about the blood transfusion method 5. Apply histopathological techniques in detecting abnormal cells
UCBCJ20	MAIN PRACTICAL - III	<ol style="list-style-type: none"> 1. Apply the safety measures in the laboratory 2. Predict the biochemical laboratory analysis 3. Analyse the presence and absence of abnormalities in blood

		4. Assess the presence and absence of abnormalities in urine
UCBCK20	MAIN PRACTICAL – IV	<ol style="list-style-type: none"> 1. Apply the safety measures in the laboratory 2. Analyze the biological sample for the enzyme activity 3. To obtain practical skills in basic hematological techniques.
USBCAn20	SBE: NUTRITIONAL BIOCHEMISTRY	<ol style="list-style-type: none"> 1. Explain the functions of specific nutrients in maintaining health 2. Describe the role of antioxidants 3. Use a balanced diet for diseased conditions 4. Discuss basic principles and practices of common food preservation methods 5. Discuss the various aspects of protein quality
USBCBn20	SBE: HEALTH CARE FOR WOMEN	<ol style="list-style-type: none"> 1. Understand the common health problems of women 2. Describe the function of Estrogen and Progesterone hormone 3. Outline the Stages of women hood 4. Discuss the types of anemia and obesity 5. Gain knowledge to overcome PCOS, Ovarian cancer and Depression
UGBCAn20	NON-MAJOR ELECTIVE - DISEASES AND TREATMENT	<ol style="list-style-type: none"> 1. Understand the concept of immune system, blood and bone diseases. 2. Know the pathology of liver and lung diseases 3. Acquire a broad knowledge about the deadliest diseases in the world 4. Understand about the pathophysiology of cardiovascular and neurological diseases 5. Learn the various types of skin diseases
UGBCBn20	NON-MAJOR ELECTIVE: THERAPEUTIC AGENTS	<ol style="list-style-type: none"> 1. Analyze the drug dosage forms and its mechanism of action 2. Assess the role of vaccines in preventing diseases 3. Outline the role of antibiotics and its side effects 4. Acquire knowledge on the medicinal therapy for various health conditions and function of medicinal plants as therapeutics 5. Utilize the importance of first aid in accidents to preserve life
UABCA20	ALLIED BIOCHEMISTRY-I	<ol style="list-style-type: none"> 1. Write about the properties and biological importance of carbohydrates 2. Outline the properties and structural organization of proteins 3. List out the structural components, properties and biological importance of nucleic acids. 4. Classify the biological importance of lipids 5. Identify the role of water- and fat-soluble vitamins for maintaining healthy life
UABCB20	ALLIED BIOCHEMISTRY-II	<ol style="list-style-type: none"> 1. Provide a deeper insight into the fundamentals of structure, function and kinetics of enzymes 2. Describe and identify the main characteristics of diagnosis, screening and prognosis of disease 3. Gain knowledge of intermediary metabolism and

		<p>regulation of individual metabolism</p> <ol style="list-style-type: none"> 4. Provide the knowledge of the key concepts of endocrine system 5. Understand the role of minerals in health and disease
UABCC20	ALLIED BIOCHEMISTRY PRACTICAL	<ol style="list-style-type: none"> 1. Understand the various identification tests for carbohydrates 2. Demonstrate separation of protein by electrophoresis 3. Estimate the amount of biomolecules 4. Discuss the principle and application of centrifugation
CHEMISTRY		
UCCHA20	GENERAL CHEMISTRY – I	<ol style="list-style-type: none"> 1. Recall and understand the concepts of valency, oxidation and reduction, classify the elements in the periodic table and explain the periodicity of properties. 2. Recall the concepts and theories of acid - base, buffer solutions, understand the principle of inorganic qualitative analysis and apply it in practicals. 3. Apply IUPAC nomenclature in naming organic compounds and the concept of hybridization to identify the geometry and shape of the simple organic molecules. 4. Analyse and apply the concepts of liquid and gaseous states. 5. Recall the concepts of classical and quantum mechanics and solve related problems.
UCCHB20	GENERAL CHEMISTRY – II	<ol style="list-style-type: none"> 1. Illustrate the different types of bonds with examples and apply the knowledge of VSEPR theory to determine geometries of molecules. 2. Interpret the molecular orbital theory of homo and hetero nuclear diatomic molecules, compare the chemical and physical properties of alkali metals and their compounds and understand the chemistry of lithium. 3. Analyse and apply the electronic displacement effects, reactions, generation, structure and stability of reaction intermediates. 4. Examine and analyse the reactions and mechanisms of alkanes, alkenes, dienes and alkynes. 5. Analyse the laws and concepts of ideal and non ideal solutions, mesomorphic and colloidal states.
UCCHC20	PRACTICAL I: INORGANIC QUALITATIVE ANALYSIS	<ol style="list-style-type: none"> 1. Recall the principles of inorganic qualitative analysis. 2. Apply the concepts of semimicro analysis in inorganic qualitative analysis. 3. Develop skill to analyse systematically the given inorganic mixture and identify the acid and basic radicals. 4. Understand the importance of eliminating the interfering radical. 5. Eliminate the interfering acid radical for group separation and identification of basic radicals.
UCCHD20	GENERAL CHEMISTRY – III	<ol style="list-style-type: none"> 1. Define and calculate equivalent weights and concentration terms and explain the principles of volumetric analysis, and illustrate the theories of different types of titrations and indicators. 2. Discuss the trend in periodicity of Beryllium, Boron and

		<p>Carbon family elements and their compounds.</p> <p>3. Describe the methods of preparation and properties of cycloalkanes, dicarboxylic acids and carbonyl compounds, and apply the concept of acidity and acid strength of carboxylic acids.</p> <p>4. Describe the methods of preparation and properties of alcohols, ethers and epoxides.</p> <p>5. Elaborate the basic concepts of solid-state chemistry including solid state defects and semiconductors.</p>
USCHA320	SKILL BASED ELECTIVE: INDUSTRIAL CHEMISTRY	<p>1. Discuss the composition, characteristics and manufacture of various industrial products. (Polymer, Leather, Textile, Glass, Ceramics, Cements, Paints and Pigments).</p> <p>2. Explain the various process involved in the manufacture of leathers and leather products.</p> <p>3. Describe the importance of natural and synthetic fibres in textile industry.</p> <p>4. Understand the classifications of fuels and learn the common terms related to it.</p> <p>5. Understand how to implement the concepts in industrial working environment.</p>
UCCHE20	GENERAL CHEMISTRY – IV	<p>1. Explain the periodic properties of Nitrogen, Oxygen and Halogen family elements and their compounds, and reason out the position of noble gases in the periodic table and describe the preparation and properties of xenon compounds.</p> <p>2. Illustrate the mechanisms of aliphatic, aromatic nucleophilic substitution and elimination reactions.</p> <p>3. Recall and apply Huckel's rule, illustrate the preparation, properties and uses of heterocyclic compounds, dihydric and trihydric phenols, and related named reactions.</p> <p>4. Define the terms involved in thermodynamics, the laws of thermodynamics and their developments.</p> <p>5. Describe the concept of entropy and calculate the entropy changes during various processes, and to explain the third law of thermodynamics and its applications.</p>
UCCHF20	PRACTICAL II: VOLUMETRIC ESTIMATION	<p>1. Use double titration method in volumetric analysis.</p> <p>2. Prepare standard solutions.</p> <p>3. Apply volumetric principles to carry out acid-base titrations, complexometric titrations, precipitation titration and redox titrations like permanganometric, dichrometry and iodometric titrations</p>
USCHB420	SKILL BASED ELECTIVE: AGRICULTURAL CHEMISTRY	<p>1. Understand the scope of agriculture in India and Tamil Nadu.</p> <p>2. Explain the physical and chemical properties of soil.</p> <p>3. Describe the types of farming.</p> <p>4. Summarize the certification of organic products.</p> <p>5. Identify the benefits and adverse effects of pesticides.</p>
UCCHG20	INORGANIC CHEMISTRY	<p>1. Discuss the general characteristics of d and f block elements, and compare the properties of elements belonging to</p>

		<p>Ti, V, Cr, Mn and Fe groups.</p> <p>2. Summarize the various steps involved in metallurgical processes, and illustrate the preparation, properties and uses of Ti, Zr, U, Pt and Th.</p> <p>3. Recall the basic concepts of nuclear chemistry, and to explain the stability of nuclides by n/p ratio, mass defect and binding energy, packing fraction, magic numbers and natural radioactivity.</p> <p>4. Explain nuclear transmutation reactions, artificial radioactivity, nuclear fission and fusion reactions.</p> <p>5. Describe the biological importance of certain elements, chelate therapy, radio pharmaceuticals, contrast agents and toxicity of few metals.</p>
UCCHH20	ORGANIC CHEMISTRY	<p>1. Remember the concepts of stereoisomerism and apply it in identifying the configurations of the optical and geometrical isomers.</p> <p>2. Illustrate tautomerism and conformational analysis.</p> <p>3. Explain the preparation and synthetic uses of active methylene compounds, basic concepts of organic photochemistry and illustrate organic photochemical reactions.</p> <p>4. Apply the knowledge of various named reactions in organic synthesis.</p> <p>5. Summarize the different types of molecular rearrangements their mechanisms and applications.</p>
UCCHI20	PHYSICAL CHEMISTRY	<p>1. Demonstrate the plausible mechanisms based on the study of the kinetics of chemical reactions.</p> <p>2. Describe the theories developed to understand the reaction kinetics of simple and complex reactions.</p> <p>3. Explain the basic principles of photo chemistry, deduce rate laws of photochemical reactions and discuss the applications of photo physical processes.</p> <p>4. Apply Phase rule to study one component and two component systems and interpret phase diagrams.</p> <p>5. Apply the knowledge gained about catalysis and adsorption to deduce the kinetics of homogeneous and heterogeneous surface reactions.</p>
UECHA20	ELECTIVE 1 A- ANALYTICAL CHEMISTRY	<p>1. Summarize the various steps involved in gravimetric analysis.</p> <p>2. Demonstrate the principles and techniques involved in paper, column, TLC and ion exchange chromatography and their applications.</p> <p>3. Explain the absorption laws, instrumentation and working of UV-Visible spectrophotometers.</p> <p>4. Elaborate the principle, instrumentation of IR spectroscopy for the identification of simple organic molecules.</p> <p>5. Explain the principle involved in NMR and interpret NMR spectra of simple organic compounds, describe the principle,</p>

		instrumentation of Mass spectroscopy and determine the molecular formulae of simple organic molecules.
UECHB20	ELECTIVE I B – BASICS OF COMPUTER PROGRAMMING IN C AND ITS APPLICATIONS IN CHEMISTRY	<ol style="list-style-type: none"> 1. Define and relate software and hardware. 2. Describe the various components of C language. 3. Demonstrate the uses of functions, arrays and pointers. 4. Apply C language for solving problems in chemistry. 5. Apply C language to calculate specific terms in Chemistry.
USCHC520	SKILL BASED ELECTIVE: SMALL SCALE CHEMISTRY	<ol style="list-style-type: none"> 1. Understand the laws, role and steps involved in starting small scale industries. 2. Acquire skills to prepare soaps and detergents. 3. Describe the characteristics and uses of cosmetics and perfumes. 4. Gain skills in the manufacture of selected small-scale products.
UCCHJ20	COORDINATION CHEMISTRY	<ol style="list-style-type: none"> 1. Define the terms involved in coordination chemistry and recall IUPAC nomenclature of coordination compounds and to explain the concept of chelation and illustrate the isomerism exhibited by coordination complexes. 2. Explain and compare Werner, Sidgwick and Valence Bond theories of bonding in coordination compounds. 3. Describe the various aspects of Crystal Field Theory and its applications. 4. Explain the importance of MOT, construct molecular orbital diagrams and to compare MOT with CFT. 5. Describe the synthesis, properties, uses, bonding, hybridization and structures of carbonyls of Ni, Cr, Fe, Co, Mn, Mo and W.
UCCHK20	ELECTRO CHEMISTRY	<ol style="list-style-type: none"> 1. Apply the laws on electrolysis and definitions of specific, equivalent and molar conductance to the working of electrolytic cells. 2. Illustrate the Debye Huckel's theory of strong electrolytes. 3. Explain the use of electrical energy in bringing about chemical reactions and how chemical reactions can produce electrical energy so has to design cells and batteries. 4. Apply chemical cells and concentration cells for determining the valency of mercurous ion, transport number, solubility and solubility product. 5. Demonstrate the knowledge gained in the study of irreversible electrode processes. And illustrate the principle and applications of fuel cells.
UEHC20	CHEMISTRY OF NATURAL PRODUCTS	<ol style="list-style-type: none"> 1. Explain the structural elucidation, properties and reactions of glucose, fructose, sucrose, maltose, starch and cellulose. 2. Elaborate the preparation, properties and reactions of alpha aminoacids, synthesis of peptides and classification and structure of proteins. 3. Explain the structure and applications DNA, RNA and processes like transcription and translation in protein

		<p>synthesis.</p> <ol style="list-style-type: none"> 4. Illustrate the sources, properties and structural elucidation of alkaloids and terpenoids. 5. Elaborate the sources, properties, structural elucidation and synthesis of flavonoids, carotenoids, anthocyanins and vitamins.
UECHD20	ELECTIVE II B - POLYMER CHEMISTRY	<ol style="list-style-type: none"> 1. Classify polymers and determine the molecular weights of polymers by physical and chemical methods. 2. Describe the mechanisms of different types of polymerization reactions. 3. Summarize the types and techniques involved in polymer degradation. 4. Demonstrate the applications of industrial polymers and explain the role of conducting polymers. 5. Illustrate the various polymer processing techniques.
UECHE20	ELECTIVE III A - APPLIED CHEMISTRY	<ol style="list-style-type: none"> 1. Describe the digestion and absorption of carbohydrates, proteins and fats and describe the role of enzymes and physiological functions of hormones. 2. Recall the definition, constituents and physico-chemical properties of milk and indicate the composition of creams, butter, ghee and ice creams. 3. Demonstrate the chief processes involved in leather manufacture and treatment of tannery effluents 4. Classify and enumerate the properties of soils. 5. Determine the physico-chemical properties of water and illustrate reverse osmosis and ion-exchange methods.
UECHF20	MAJOR ELECTIVE III B - PHARMACEUTICAL CHEMISTRY	<ol style="list-style-type: none"> 1. Explain the basic pharmacological terms are used in pharmaceutical chemistry. Illustrate the selected Indian Medicinal plants and their uses. 2. Elaborate the definition, properties and therapeutic uses of sulphonamides, antibiotics, antiseptics and disinfectants. 3. Explain the role of analgesics and anesthetics. 4. Analyse the causes, symptoms and drugs used for the treatment of Cancer, AIDS, Epilepsy and Hypertension 5. Summarize the characteristics and classifications of cardiovascular drugs. Identify the common organic pharmaceutical aids.
USCHD620	FOOD CHEMISTRY	<ol style="list-style-type: none"> 1. Apply simple analytical techniques for detecting food adulterants. 2. Describe the role of food additives, preservatives, flavours, colours and antioxidants. 3. Detect food poisons and apply first aid techniques. 4. Distinguish between alcoholic and nonalcoholic beverages. 5. Describe the importance of saturated and unsaturated fats in edible oils and the nutritive value of fruits and vegetables.
UCCHL20	PRACTICAL III: PHYSICAL CHEMISTRY PRACTICAL	<ol style="list-style-type: none"> 1. Demonstrate practical skills in carrying out chemical reactions of different orders to arrive at reaction kinetics. 2. Estimate quantitatively using conductometric and potentiometric titrations

		<ol style="list-style-type: none"> 3. Assess the meaning of values and calculations in experiments and learn the techniques of getting rate constants through graphical methods. 4. Understand laboratory practices and safety/First aid rules. 5. Handle electronic equipments with technical skills
UCCHM20	PRACTICAL IV: GRAVIMETRIC ESTIMATION	<ol style="list-style-type: none"> 1. Quantitatively estimate metal ions using gravimetric analysis. 2. Gain knowledge on the choice of precipitating methods, reagents, crucibles and filtration. 3. Identify common errors in gravimetric analysis. 4. Outline the favourable conditions for precipitation and factors affecting the particle size of the precipitate. 5. Relate particle size of the precipitates with choice of crucibles used in gravimetric estimations.
UCCHN20	PRACTICAL V: MICRO SCALE ORGANIC ANALYSIS & PREPARATION	<ol style="list-style-type: none"> 1. Apply the concepts of micro scale analysis in organic qualitative analysis. 2. Develop skill to analyse systematically the given organic mixture and identify the functional group and special elements. 3. Prepare simple organic compounds. 4. Discuss the importance of laboratory practices and safety/First aid rules for handling the organic chemicals. 5. Explain the significance of organic reactions to understand the theory concepts of organic chemistry.
UGCHA520/ UGCHA620	FOOD AND NUTRITION CHEMISTRY	<ol style="list-style-type: none"> 1. Explain the sources, classification, functions, deficiency diseases and metabolism of carbohydrates. 2. Explain the sources, classification, functions, deficiency diseases and metabolism of proteins and fats. 3. Outline the sources, functions and deficiency diseases of fat soluble and water soluble vitamins. 4. Describe the sources, functions, and deficiency diseases and RDA of essential and trace minerals. 5. Appreciate the nutritive values and evaluate the chemical changes and loss of nutrients during cooking and storage of fruits and vegetables.
UGCHB520 / UGCHB620	NON-MAJOR ELECTIVE – II -COSMETICS AND DYES	<ol style="list-style-type: none"> 1. Define and classify cosmetics, deodorants, antiperspirants, perfumes, aerosols and identify the pros and cons of synthetic cosmetics. 2. Describe the safety assessment methods used by FDA. 3. Prepare and use fruits and vegetables based herbal cosmetics and evaluate the significance of aromatherapy and apply it to human health and beauty. 4. Explain the properties of natural and synthetic dyes. 5. Understand the impact of dyes used in textile and leather industry to environmental pollution and analyse the importance of dyes in pharmaceutical and food industry.
UACHA20	ALLIED CHEMISTRY I	<ol style="list-style-type: none"> 1. Understand and apply the concept of aromaticity, mechanism of electrophilic substitution reaction, and chemistry of heterocyclic compounds.

		<ol style="list-style-type: none"> 2. Explain the terms involved in kinetics and methods of determination of order of the reaction, and understand the theories of reaction rates. 3. Classify polymers and explain its preparation, properties and uses. 4. Understand the concepts, types of chromatographic techniques, principles of volumetric analysis, and describe the separation and purification techniques. 5. Understand the composition and uses of fuel gases, cement, glass, explosives and dyes.
UACHB20	ALLIED CHEMISTRY II	<ol style="list-style-type: none"> 1. Understand the nomenclature and theories of coordination compounds. 2. Understand the concepts of isomerism and tautomerism. 3. Explain the concepts of electrolytes and its types, buffer solutions, separation techniques, and construction of electrochemical cell. 4. Understand the basic principles of photochemistry and kinetics of hydrogen-chlorine reaction. 5. Recall the basic terms in medicinal chemistry, and discuss the causes, symptoms and treatment of cancer, diabetes and AIDS.
UACHC20	ALLIED CHEMISTRY II	<ol style="list-style-type: none"> 1. Acquire skills in acid-base titrations. 2. Acquire skill in Permanganometry 3. Acquire skill in determining hardness of water 4. Analyse the elements presents in organic compounds. 5. Analyse the functional groups presents in organic compounds
B.SC. COMPUTER SCIENCE		
UCCSA20	PROGRAMMING IN C	<ol style="list-style-type: none"> 1. Introduce the students to understand the concept of basic programming - thereby reducing the design complexity and increasing the reusability of a component. 2. Construct the basic structure of C programming, declaration and usage of variable. 3. Understand and develop conditional and iterative statements to write programs. 4. Exercise C programs that uses array and string. 5. Develop user defined functions to solve real time problems
UCCSB20	PRACTICAL I: C	<ol style="list-style-type: none"> 1. Exercise with basic structure of the C program, declaration and usage of variable. 2. Resolve mathematical and scientific problem. 3. Develop the programs using conditional and iterative statements. 4. Implement array and string concept in C program. 5. Write real time problems using user defined functions
UCCSC20	PRACTICAL II: DIGITAL LOGICS AND FUNDAMENTALS	<ol style="list-style-type: none"> 1. Understand working of logic families and logic gates. 2. To minimize the Boolean expression using Boolean algebra. 3. Design and analyze the combinational and sequential logic circuits. 4. Simulate digital circuits and implement them using

		hardware component. 5. Design and implementation of combinational circuits.
UCCSD20	DATA STRUCTURES WITH C++	<ol style="list-style-type: none"> 1. Describe the procedural and object-oriented paradigm with concepts of streams, classes, functions, data and objects. 2. Understand dynamic memory management techniques using pointers, constructors, destructors, etc. 3. Describe the concept of function overloading, operator overloading, virtual functions. 4. Identify problem involving trees and binary search trees. 5. Analyse graphs and describe the hash function and concepts of collision and its resolution methods.
UCCSE20	PRACTICAL III: DATA STRUCTURES WITH C++	<ol style="list-style-type: none"> 1. Identify the appropriate data structure and algorithm for solving the real world problems. 2. Implement stack and queue techniques using arrays and pointers. 3. Implement the data structure algorithm for polynomial addition. 4. To know the concept of singly linked list. 5. To implement the concept of tree traversals using the algorithm.
UCCSF20	PRACTICAL IV: MICROPROCESSOR	<ol style="list-style-type: none"> 1. Understand the Architecture of a typical microprocessor. 2. Understand different addressing modes and instructions of 8086 design and to develop assembly language programs using software interrupts. 3. Understand the concepts of Instruction sets. 4. Write the assembly code for 8 bit and 16 bit data manipulation. 5. Write the assembly code for Sorting and reversing elements.
UCCSG20	JAVA PROGRAMMING	<ol style="list-style-type: none"> 1. Able to understand the use of OOPs concepts. 2. Able to solve real world problems using OOP techniques and to understand the use of polymorphism and Inheritance. 3. Able to understand the use of Packages and Interface in Java. 4. Able to develop and understand exception handling, multithreaded applications with synchronization. 5. Able to design GUI based applications and develop AWT and applets for web applications.
UCCSH20	PRACTICAL -V: PROGRAMMING IN JAVA	<ol style="list-style-type: none"> 1. Explain about basic Java language syntax and semantics to write Java programs and use concepts such as variables, conditional and iterative execution methods etc. 2. Understand the fundamentals of object-oriented programming in Java, including defining classes, objects, invoking methods and I/O Streams. 3. Demonstrate the concepts of Packages and Interface. 4. Evaluate the Java programs to implement error handling techniques using exception handling. 5. Design GUI based applications and develop applets for web applications.
UCCSI20	PRACTICAL-VI:	<ol style="list-style-type: none"> 1. Explain the concepts of windows programming.

	WINDOWS PROGRAMMING WITH VB.NET	<ol style="list-style-type: none"> 2. Create windows by using different basic elements and resources. 3. Develop real time applications using VB.NET. 4. Understand the impact of VB.NET on business. 5. Create a user interface following good GUI design guidelines.
UCCSJ20	OPERATING SYSTEM	<ol style="list-style-type: none"> 1. Acquire the Knowledge of important computer system resources and the role of operating system in their management policies and algorithms. 2. Understand the process management policies and scheduling of processes by CPU. 3. Evaluate the requirement for process synchronization and coordination handled by operating system. 4. Describe and analyze the memory management and its allocation policies. 5. Edify and evaluate the storage management policies with respect to different storage management technologies.
UCCSK20	PRACTICAL VII: LINUX	<ol style="list-style-type: none"> 1. Get familiar with the GCC compiler and files. 2. Understand the high-level structure of the Linux kernel both in concept and source code. 3. Acquire a detailed understanding of one aspect (the scheduler) of the Linux kernel. 4. Learn to develop software for Linux systems. 5. Obtain a foundation for an advanced course in operating systems.
UCCSL20	PRACTICAL VIII: PYTHON PROGRAMMING	<ol style="list-style-type: none"> 1. Understand and comprehend the basics of python programming. 2. Understand and implement modular approach using Python. 3. Learn and implement various data structures provided by python library including string, list, dictionary and its operations etc. 4. Understand about files and its applications. 5. Develop real-world applications using oops, files and exception handling provided by python.
UCCSM20	RELATIONAL DATABASE MANAGEMENT SYSTEMS	<ol style="list-style-type: none"> 1. Demonstrate an understanding of the elementary and advanced features of RDBMS. 2. Apply the SQL commands to create tables and Triggers, insert/update/delete data, and query data in a relational DBMS. 3. Analyze and Design a database based on a data model considering the normalization to a specified level. 4. Apply the storage size of the database and design appropriate storage techniques. 5. Analyze the requirements of transaction processing, concurrency control and avoid redundancy.
UCCSN20	.NET PROGRAMMING IN C#	<ol style="list-style-type: none"> 1. Understand the concepts of .NET Framework and C#. 2. Apply the usage of Methods, Arrays and Strings. 3. Interpret the concepts of Constructors, Inheritance and Interfaces.

		<ol style="list-style-type: none"> 4. Analyze Operator Overloading, Delegates, Events and Exceptions. 5. Create Windows Applications and Web - based Applications.
UCCSO20	DATA COMMUNICATION AND NETWORKING	<ol style="list-style-type: none"> 1. To gain expertise in some specific areas of networking such as the design and maintenance of individual networks. 2. Explain the types of Transmission Media with Real-Time Applications. 3. Apply Time and Frequency concept of analysis. 4. Manage Network functions for an Organization. 5. Analyze various Routing Algorithms and Protocols.
UECSA20	ELECTIVE - I A: SOFTWARE ENGINEERING	<ol style="list-style-type: none"> 1. Apply the software engineering life cycle by demonstrating competence in communication, planning, analysis, design, construction and deployment. 2. Discuss the function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks and meet objectives. 3. Manage the time, processes and resources effectively by prioritizing competing demands to achieve personal and team goals Identify and analyzes the common threats in each domain 4. Understand architectural design in order to minimize the risks and errors. 5. Test the techniques for ensuring high quality software and understand the capabilities of cost estimation.
UECSB20	ELECTIVE I B: DATA MINING	<ol style="list-style-type: none"> 1. Understand Data Warehouse fundamentals and Data Mining Principles 2. Understand and implement classical algorithms in data mining and identify the application area of algorithms. 3. Compare and evaluate different data mining techniques like, prediction, clustering and association rule mining. 4. Describe complex data types with respect to spatial and web mining. 5. Analyze the temporal mining techniques to detect patterns in the e-world.
UCCSP20	PRACTICAL - IX: RDBMS	<ol style="list-style-type: none"> 1. Understand, Appreciate and effectively explain the underlying concepts of Database technologies. Programming PL/SQL including stored procedures, stored functions, cursors, package. 2. Attain a good practical understanding of the Oracle. 3. Design and implement a database schema for a given problem-domain. 4. Prepare various database tables and joins them using SQL commands. Analyze various aggregate functions using SQL commands. 5. Design and develop forms to select, insert, delete and update using Data Source Binding with the front end tool VB .NET.

UCCSQ20	PRACTICAL X: .NET PROGRAMMING IN C#	<ol style="list-style-type: none"> 1. Create user interactive web pages using .NET. Understanding different types of AI Agents and its Environments. 2. Develop, implement and create applications with C#. 3. Debug, compile and run a simple application. 4. Create Mobile Application using .NET compact Framework. 5. Design and develop Web based applications on .NET.
UCCSR20	INTERNET AND WEB PROGRAMMING	<ol style="list-style-type: none"> 1. Acquire the basic concept of JavaScript. 2. Use operators, variables, arrays, control structures, functions and objects in JavaScript. 3. Create PHP programs that use various PHP library functions, and that manipulate files and directories. 4. Design a responsive web site using HTML, PHP, MySQL and Apache. 5. Build dynamic web pages using JavaScript (Client Side Programming) and apply their knowledge to create interactive websites.
UCCSS20	CLOUD COMPUTING	<ol style="list-style-type: none"> 1. Understand the fundamental concepts in cloud computing technologies. 2. Analyze and integrate the cloud enabling services. 3. Analyze the architecture and concept of different cloud model IaaS, PaaS, SaaS. 4. Understand and familiar with the deployment models. 5. Comprehend the Cloud Data Security concepts and how they are addressed with the security mechanisms.
UECSC20	ELECTIVE II A: SOFTWARE TESTING	<ol style="list-style-type: none"> 1. Test various processes and continue quality improvement. 2. Verify types of errors and fault models. 3. Analyze methods of test generation from requirements. 4. Input space modeling using combinatorial designs. 5. Test adequacy assessment using control flow, data flow and program mutations.
UECSD20	ELECTIVE – II B: DATA SCIENCE	<ol style="list-style-type: none"> 1. Understand the key concepts in data science, its applications and the toolkit used by data scientists. 2. Explain how data is collected, managed and stored for data science. 3. Implement data collection and management. 4. Use visualization tools for data visualization. 5. Possess the required knowledge and expertise to become a proficient data scientist
UECSE20	ELECTIVE – III A: ARTIFICIAL INTELLIGENCE	<ol style="list-style-type: none"> 1. Understand different types of AI Agents and its Environments. 2. Know Various AI Search Algorithms (uninformed, informed, heuristic search). 3. Understand the fundamentals of Knowledge representation (logic based, frame based). 4. Understand the different types of Learning. 5. Ability to apply knowledge representation, reasoning, and machine learning Techniques.

UECSF20	ELECTIVE III B: COMPUTER GRAPHICS	<ol style="list-style-type: none"> 1. Understand the basics of computer graphics, different graphics systems and applications of computer graphics. 2. Discuss various algorithms for scan conversion and filling of basic objects and their comparative analysis. 3. Use of geometric transformations on graphics objects and their application in composite form. 4. Apply clipping methods and its transformation to graphics display device. 5. Use suitable projections and visible surface detection techniques for display of 3D scene on 2D screen.
UCCST20	PRACTICAL XI: INTERNET AND WEB PROGRAMMING	<ol style="list-style-type: none"> 1. Know variable naming rules and JavaScript data types. 2. Use operators, variables, arrays, control structures, functions and objects in JavaScript. 3. Demonstrate objects and arrays usage. 4. Create PHP programs that use various PHP library functions, and that manipulate files and directories. 5. Validate user input and create cookies in PHP.
UCCSU20	PRACTICAL XII: PROJECT WORK	<ol style="list-style-type: none"> 1. Acquire practical knowledge on the implementation of the programming concepts learnt. 2. Motivate the Students to work in emerging/latest technologies. 3. Help the students to develop ability, to apply theoretical and practical tools/techniques. 4. To solve real life problems related to industry, academic institutions and research laboratories. 5. Help the students to gain Self-confidence.
USCSEn20	SKILL BASED ELECTIVE: DATA ANALYTICS USING DATA VISUALIZATION TOOLS	<ol style="list-style-type: none"> 1. Identify the various data visualizations tools in the market and its features. 2. Understand the different data format and its graphical representation 3. Develop skills to present data effectively through chart, map and dashboard. 4. Demonstrate to design visual presentations of data for decision making. 5. Apply data visualizations on real-time data.
USCSFn20	SKILL BASED ELECTIVE: R PROGRAMMING	<ol style="list-style-type: none"> 1. Understand the basics in R and Studio Programming. 2. Use Vector, Arrays, Matrix and Data frames. 3. Demonstrate Math functions, Statistical functions and Family functions. 4. Create R programs that use various library functions, and that manipulate files and directories. 5. Learn to apply R programming for Text processing.
USCSAn20	SKILL BASED ELECTIVE: BASICS OF WEB DESIGN	<ol style="list-style-type: none"> 1. Demonstrate competency in the use of common HTML code. 2. Support the development of web pages. 3. Create XML documents and Schemas. 4. Create website using HTML. 5. Write programs using XML.
USCSBn20	SKILL BASED	<ol style="list-style-type: none"> 1. Understand Multimedia components using various tools

	ELECTIVE: DESIGN AND ANIMATION	<ul style="list-style-type: none"> and techniques. 2. Analyze and Interpret Multimedia Data. 3. Discuss about different types of media format and their properties. 4. Understand and apply principles of design into given projects. 5. Acquire and analyze different ideas about designs and its implementation.
UGCSAn20	NON MAJOR ELECTIVE: STATISTICAL PACKAGE FOR SOCIAL SICENCE	<ul style="list-style-type: none"> 1. Understand the basic workings of SPSS software using menus and buttons and perform basic statistical analysis. 2. Analyze data and create simple tables, charts and frequencies. 3. Introduce data analysis and perform basic statistical analysis. 4. Analyze data for reporting descriptive statistics, graphics and correlations 5. Perform simple analysis of Two way sample and Chi-square tests.
UGCSBn20	NON-MAJOR ELECTIVE: WEB DESIGNING USING DREAMWEAVER	<ul style="list-style-type: none"> 1. Understand the basic concept of Web designing using Dreamweaver software. 2. Creating the web pages using background colors, property inspector tools in HTML. 3. Develop how to create web page links. 4. Create tables, frames and frameset using Dreamweaver tools. 5. Apply style sheet, adding forms to a web page.
B.Sc. MATHEMATICS		
UCMAA20	ALGEBRA AND TRIGONOMETRY	<ul style="list-style-type: none"> 1. Perceive the fundamental concepts in the theory of equations. 2. Solve various types of higher order equations. 3. Know about matrices and their applications. 4. Solve problems involving trigonometric functions. 5. Analyze and relate hyperbolic and circular functions.
UCMAB20	CALCULUS	<ul style="list-style-type: none"> 1. Calculate the radius of curvature, center of curvature, evolutes and involutes. 2. Understand and find the asymptotes of rational curves. 3. Determine the area and volume by applying the technique of double and triple integrals. 4. Determine and use various techniques to solve the variety of integration problems. 5. Evaluate beta and gamma functions and apply beta and gamma functions in double and triple integrals.
UCMAC20	VECTOR ANALYSIS AND FOURIER SERIES	<ul style="list-style-type: none"> 1. Compute divergence, curl, directional derivatives and Gradients. 2. Calculate the unit normal and tangent to the surface. 3. Evaluate line integrals, surface integrals and volume integrals using vector integration. 4. Verify and Apply Green's Theorem, Gauss divergence Theorem, Stoke's Theorem.

		5. Understand the nature of the Fourier series and find the Fourier coefficients.
UCMAD20	DIFFERENTIAL EQUATIONS AND LAPLACE TRANSFORMS	<ol style="list-style-type: none"> 1. Solve the standard forms of first order differential equations. 2. Solve the second order differential equations with constant coefficients and variable coefficients. 3. Find the complete, singular and general integral of PDE. 4. Analyze the properties of Laplace Transforms. 5. Solve differential equations using Laplace Transforms.
UCMAE20	SOLID GEOMETRY	<ol style="list-style-type: none"> 1. Comprehend the basic concepts of plane and find the equation of a plane under given conditions. 2. Understand the basic concepts of straight line and skew lines and also find the equation of a straight line under given conditions, find the length and equations of the shortest distance between two skew lines. 3. Understand the basic concepts of sphere and find the equation of a sphere under given conditions. 4. Familiarize with cone, right circular cone, enveloping cone and reciprocal cone and also find the respective equations under given conditions. 5. Familiarize with cylinder, enveloping cylinder and right circular cylinder and also find the respective equations under given conditions.
UCMAF20	STATICS	<ol style="list-style-type: none"> 1. Familiarize with subject matter, which has been the single center, to which mathematicians, physicists, astronomers, and engineers were drawn together. 2. Understand necessary conditions for the equilibrium of particles acted upon by various forces and learn the principle of virtual work for a system of coplanar forces acting on a rigid body. 3. Understand the reduction of force system to a resultant force acting at a base point and a resultant couple, which is independent of the choice of base of reduction. 4. Understand static friction that exists between a stationary object and the surface on which it is resting and apply the knowledge and skills to solve specific theoretical and applied problems. 5. Construct center of gravity of some materialistic systems.
UAMSA20	MATHEMATICAL STATISTICS I	<ol style="list-style-type: none"> 1. Comprehend the fundamentals of probability. 2. Know about random variables of one and two dimensions. 3. Learn about the measures of central tendency and concepts of moments. 4. Acquire knowledge about discrete and continuous distributions. 5. Apply correlation and regression for the investigation of relationship between the variables.
USMAAN20	NUMERICAL METHODS	<ol style="list-style-type: none"> 1. Understand the operators of finite differences and express any value of y in terms of the forward differences of y_0 and the backward differences of y_n.

		<ol style="list-style-type: none"> 2. Apply interpolating techniques for equal intervals by Newton's method. 3. Apply central difference formulae to get the intermediate values of given data. 4. Apply interpolating techniques for unequal intervals by divided difference formula and Lagrange's interpolation formula. 5. Evaluate the gradient at any point of a graph using numerical differentiation and find the area under curved surface, velocity, etc. using numerical integration.
UCMAG20	OPERATIONS RESEARCH	<ol style="list-style-type: none"> 1. Translate the real-world problems into linear programming problems and obtain solutions. 2. Apply the transportation problem techniques for the optimization of cost. 3. Solve the assignment problem which deals with the allocation of various sources to various destinations on one-to-one basis. 4. Find the optimum strategies of the players and the value of the 2-person games. 5. Perform network planning using PERT & CPM techniques which provide a methodology for planning and controlling of a project.
UCMAH20	DYNAMICS	<ol style="list-style-type: none"> 1. Familiarize with subject matter, which has been the single centre, to which mathematicians, physicists, astronomers, and engineers were drawn together. 2. Understand behaviour of motion of objects. 3. Understand simple harmonic motion and projectiles. 4. Express the effects of impact of spheres. 5. Demonstrate methods to locate central orbits. 6. Apply the knowledge and skills to solve specific theoretical and applied problems.
UAMSB20	MATHEMATICAL STATISTICS II	<ol style="list-style-type: none"> 1. Know the basic concepts of some advanced distributions. 2. Apply estimation theory to estimate the values of parameters. 3. Use appropriate sampling distributions for testing of hypothesis. 4. Apply chi-square test to find out the significant difference between expected and observed frequencies in one or more categories. 5. Use F-test to compare statistical model that has been fitted to a data that best fits the population from which the data was sampled.
USMABN20	R PROGRAMMING LANGUAGE	<ol style="list-style-type: none"> 1. Familiarize the basics of programming in R such as vectors, arrays, data frames, etc. 2. Use the Decision making-branching and looping statements in R programming. 3. Represent data and Interpret results through graphical tools in R. 4. Calculate basic statistical measures and fit standard

		<p>distributions using R.</p> <ol style="list-style-type: none"> Understand and apply the programming concepts of R to perform tests of significance. Understand and apply the programming concepts of R to perform Analysis of Variance.
UCMAI20	ABSTRACT ALGEBRA	<ol style="list-style-type: none"> Understand the concepts of groups and sub groups. Know about normal subgroups, quotient groups, homomorphisms and isomorphisms. Understand the concepts of automorphisms for constructing new groups from the given groups. Have knowledge on concepts of ring theory. Understand the concepts of maximal ideals, Euclidean rings and particular integral domain.
UCMAJ20	REAL ANALYSIS I	<ol style="list-style-type: none"> Know the basic properties of the real line and real number system. Understand the fundamentals of sequences and to calculate their limits. Recognize the arithmetic properties of convergence and divergence of sequence and series. Learn the properties of metric space and its type. Know about continuous function and its reformulation.
UCMAK20	COMPLEX ANALYSIS	<ol style="list-style-type: none"> Know to define and give some of the important properties of complex analytic functions. Learn certain elementary functions with special reference to the correspondence between certain portions of the z-plane and w-plane as determined by the relation between the function w and the independent variable z. Become familiar with the integrals of analytic functions where many properties from calculus is carried over to complex case. Expand the concept of sequence and series which plays a major part of calculus to the complex domain. Learn to compute residues, which allow the determination of general contour integrals.
UEMAA20	PROGRAMMING IN C	<ol style="list-style-type: none"> Understand the basics of programming in C such as tokens, data types, operators etc. Use the Decision making-branching and looping statements in C programming. Handle the concept of arrays and the concept of the user defined functions. Express the uses of structures and pointers Understand and apply the programming concepts of C to problem solving.
UEMAB20	ELECTIVE PRACTICAL I: C	<ol style="list-style-type: none"> Implement programs with branching and looping statements. Write programs that perform operations using derived data types and functions. Demonstrate a thorough understanding of arrays by designing and implementing programs that search and sort

		<p>arrays.</p> <ol style="list-style-type: none"> 4. Perform Matrix operations using C. 5. Use structures and pointers in C programs.
UEMAC20	NUMBER THEORY	<ol style="list-style-type: none"> 1. Learn about some important results in the theory of numbers including the prime number theorem, Chinese remainder theorem, Wilson's theorem and their consequences. 2. Learn about number theoretic functions, modular arithmetic and their applications. 3. Familiarize with modular arithmetic and find primitive roots of prime and composite numbers. 4. Know about open problems in number theory, namely, the Goldbach conjecture and twin-prime conjecture. 5. Apply public crypto systems, in particular, RSA.
USMAC20	MATHEMATICS FOR COMPETITIVE EXAMINATIONS	<ol style="list-style-type: none"> 1. Apply the concepts of average, percentage, ratio and proportion to solve real life problems. 2. Think critically and solve problems. 3. Improve their creative thinking and make decisions in real life situations. 4. Determine the number of possible outcomes in a problem and calculate the probability of events for more complex outcomes. 5. Analyse and compare the given data to use analytic techniques that are simple and effective to solve problems.
UCMAL20	LINEAR ALGEBRA	<ol style="list-style-type: none"> 1. Understand the concepts of basis, linear dependence and independence. 2. Analyze the concepts of dual spaces in vector space and inner product space. 3. Understand the concepts of linear transformation, characteristic roots and characteristic vectors. 4. Obtain the matrix for linear transformations. 5. Acquire knowledge about determinants, trace and transpose by linear transformations
UCMAM20	REAL ANALYSIS II	<ol style="list-style-type: none"> 1. Understand some properties of metric spaces like openness, closedness, boundedness and totally boundedness. 2. Know the fundamental concepts of complete and compact metric space. 3. Apply the properties of Riemann integrable functions. 4. Assimilate the concept of partition on an interval in \mathbb{R} and understand about Lebesgue integrability. 5. Acquire knowledge about measurable functions and their properties.
UEMAD20	GRAPH THEORY	<ol style="list-style-type: none"> 1. Understand the basic graph theory concepts 2. Analyse the connectedness in graphs using vertices and edges. 3. Identify the uniqueness of paths using tree concepts. 4. Acquire wide knowledge of mathematical principles of graphs 5. Understand the emerging research topics based on graphs

UEMAE20	DISCRETE MATHEMATICS	<ol style="list-style-type: none"> 1. Learn about partially ordered sets. 2. Understand lattices and their types. 3. Understand Boolean algebra and Boolean functions, logic gates, switching circuits and their applications. 4. Solve real-life problems using finite-state and Turing machines. 5. Assimilate various graph theoretic concepts and familiarize with their applications.
UEMAF20	OBJECT ORIENTED PROGRAMMING USING C++	<ol style="list-style-type: none"> 1. Understand the basics of programming in C++ such as tokens, data types, operators etc. 2. Use the Decision making-branching and looping statements in C++ programming. 3. Handle the concept of arrays and the concept of the user define functions. 4. Express the uses of structures and pointers. 5. Understand and apply the programming concepts of C to problem solving.
UEMAG20	ELECTIVE PRACTICAL II: C++	<ol style="list-style-type: none"> 1. Implement Programs With Class And Constructors. 2. Write Programs That Perform Operations Using Derived Data Types And Functions. 3. Demonstrate A Thorough Understanding Of Arrays By Designing And Implementing Programs That Search And Sort Arrays. 4. Use Inheritance Properties That Promote Code Reuse In C++. 5. Overload Functions And Operators In C++.
USMAD20	SKILL BASED ELECTIVE-FUZZY SET THEORY	<ol style="list-style-type: none"> 1. Distinguish Between Classical Crisp Set And Fuzzy Set Using Characteristic Function And Membership Function Respectively. 2. Understand The Operations On The Fuzzy Set Which Are Generalization Of Crisp Set Operations. 3. Represent The Notion Of Fuzzy Relational Equations Based Upon The Max-Min Composition. 4. Model Fuzzy Graphs Which Provides Provision To Represent Different Types Of Relationships 5. Know About The Fuzzy Number Which Is A Special Form Of A Fuzzy Set On The Set Of Real Numbers.
UABSA23	BUSINESS STATISTICS	<ol style="list-style-type: none"> 1. Apply statistical and graphical techniques wherever relevant. 2. Apply business statistical analysis concepts, tools, and techniques in business management. 3. Analyze problems related to statistical measures. 4. Comprehend critical thinking and problem-solving skills in correlation and regression. 5. Interpret numerical information that forms the basis of index numbers in business.
UAORA23	OPERATIONS RESEARCH	<ol style="list-style-type: none"> 1. Translate real-world problems into mathematical equations and obtain solutions. 2. Apply transportation problem techniques for optimization

		<p>of cost.</p> <ol style="list-style-type: none"> Handle assignment problem which deals with the allocation of various resources to various activities on one-one basis. Use Game Theory which resolves the situation of conflict in Business. Perform Network Analysis (PERT & CPM) which helps to control, and monitor the Business process and its work-flow.
UABMA20	BUSINESS MATHEMATICS AND STATISTICS	<ol style="list-style-type: none"> Apply the knowledge in matrices in solving business problems. Analyze and demonstrate differentiation skills in economics and business. Apply statistical and graphical techniques wherever relevant. Apply the concepts, tools and techniques in business statistical analysis. Solve a range of problems using the techniques covered.
UASOR20	BUSINESS STATISTICS AND OPERATIONS RESEARCH	<ol style="list-style-type: none"> Gain practical knowledge of correlation and regression. Understand the basic concepts of index numbers. Learn the ideas of possible outcomes. Develop mathematical skills to optimize transportation and assignment problem. Propose the best strategy using decision making methods under uncertainty and game theory.
UAMAA20	ALLIED MATHEMATICS I	<ol style="list-style-type: none"> Understand the basic concepts of matrices Apply the theory of equations and find roots using Newton's and Horner's method. Acquire problem solving skills in trigonometry. Compute radius of curvature, centre of curvature, evolutes and involutes. Apply the techniques of integral calculus.
UAMAB20	ALLIED MATHEMATICS II	<ol style="list-style-type: none"> Understand the use of vector calculus in science and engineering. Understand the applications of Green's, Gauss divergence and Stoke's Theorems. Find the complete, singular and general integral of partial differential equations. Understand the basic concepts of Laplace Transforms. Determine the nature of the Fourier series and find its coefficients
UANAA20	NUMERICAL ANALYSIS I	<ol style="list-style-type: none"> Understand the operators and their properties, form a forward and backward difference table. Execute interpolation methods using forward and backward differences when the data is equally distributed. Exhibit interpolation procedures using central differences when the data is equally distributed. Use divided differences for interpolation when the data is unequally distributed. Implement curve fitting and method of moments.

UANAB20	NUMERICAL ANALYSIS II	<ol style="list-style-type: none"> 1. Obtain numerical solutions of algebraic and transcendental equations. 2. Find numerical solutions of system of linear equations. 3. Use numerical methods to do differentiation. 4. Use numerical methods to do integration. 5. Solve ordinary differential equations using numerical methods.
UACAA23	MATHEMATICAL FOUNDATIONS	<ol style="list-style-type: none"> 1. Understand the concepts of Mathematical logic and compute the operators of Symbolic logic. 2. Acquire knowledge about relations and functions. 3. Assess real-life simple problems with permutation, combination, and probability. 4. Know about matrices and their types. 5. Differentiate standard functions.
UACAB23	STATISTICAL METHODS	<ol style="list-style-type: none"> 1. Analyze the statistical data using measures of central tendency and graphs. 2. Provide an overall description of a set of data using measures of dispersion. 3. Apply the concept of regression and correlation in business problems. 4. Make decisions using hypothesis testing. 5. Apply the Chi-square test for independence as well as goodness of fit.
UABSA20	BIOSTATISTICS I	<ol style="list-style-type: none"> 1. Frame a relevant frequency distribution for a given biological data. 2. Determine mean, median, mode for biological data. 3. Compute measures of dispersion. 4. Understand probability concepts. 5. Gain knowledge of correlation and regression and its applications.
UABSB20	BIOSTATISTICS II	<ol style="list-style-type: none"> 1. Apply probability distributions such as Binomial, Poisson and Normal to solve real life problems. 2. Recognize the importance of data collection and its role in determining scope of inference. 3. Execute the test of hypothesis for large and small samples drawn from a normal population. 4. Perform and apply Chi-square test 5. Carry out analysis of variance using F test.
UAMST20	MEDICAL STATISTICS	<ol style="list-style-type: none"> 1. Solve basic mathematical problems using matrices 2. Use various differentiation techniques 3. Give graphical representation of statistical data 4. Understand the concepts related to statistics 5. Analyze problems related to statistical measures
UAORA20	OPERATIONS RESEARCH	<ol style="list-style-type: none"> 1. Understand the basic operations research concepts and solve linear programming problems. 2. Analyze real-life situation using transportation models. 3. Assign jobs to different machines using assignment models. 4. Use knowledge of Network Analysis in Hospital Administration.

		5. Acquire wide knowledge in Game Theory.
UGMAAN20	MATHEMATICS FOR COMPETITIVE EXAMINATIONS	<ol style="list-style-type: none"> 1. Gain critical thinking and numerical ability to solve problems. 2. Apply the concepts of quantitative aptitude to solve real life problems. 3. Interpret and use data represented in different forms 4. Reason out verbally and non-verbally 5. Write various competitive exams for higher studies and jobs
B.Sc. MICROBIOLOGY		
UCMBA20	FUNDAMENTALS OF MICROBIOLOGY	<ol style="list-style-type: none"> 1. Outline the history, recent developments and scope of Microbiology. 2. Demonstrate microscopy with deep knowledge on the sample preparation and staining techniques. 3. Discuss important aspects of microbial evolution and diversity by employing classical techniques of microbial identification. 4. Explain the ultra-structure, arrangement and function of a bacterial cell. 5. Perform the sterilization and disinfection techniques
UCMBB20	MICROBIAL PHYSIOLOGY AND METABOLISM	<ol style="list-style-type: none"> 1. Discuss on various physical and chemical growth requirements of bacteria. 2. Practically apply the knowledge in preparation of culture media for bacterial growth and identification. 3. Equip with various techniques employed to measure microbial growth and evaluate different classes of antibiotics and their mode of actions. 4. Explain the structural similarities and differences among various groups of fungi and algae along with its physiological properties. 5. Outline microbial transport systems and mechanisms of energy conservation in metabolism.
UCMBC20	CORE PRACTICAL I: BASIC TECHNIQUES IN MICROBIOLOGY	<ol style="list-style-type: none"> 1. Perform cleaning, sterilization of glasswares and prepare culture media. 2. Examine the different morphological forms of microbes. 3. Analyze and employ different staining methods for the identification of bacteria. 4. Competently cultivate bacteria in different types of media and identify their sensitivity and resistance. 5. Use Classical techniques for the identification of bacteria based on their biochemical properties.
UCMBD20	BASIC IMMUNOLOGY AND MICROBIAL GENETICS- I	<ol style="list-style-type: none"> 1. Outline the history of immunology and immunohaematology. 2. Discuss the overall organization of the immune system and differentiate the humoral and cell mediated immune mechanisms. 3. Explain about types of antigen, antibody and apply the principles and techniques involved in antibody production. 4. Describe the structure of DNA & RNA with their physical & chemical properties.

		5. Familiarize with the process involved in the replication of DNA.
UCMBE20	APPLIED IMMUNOLOGY AND MICROBIAL GENETICS- II	<ol style="list-style-type: none"> 1. Outline and apply the basic principle and mechanism of antigen and antibody reactions. 2. Discuss on the significance of autoimmune diseases, hypersensitivity reactions and interpret on different types of vaccine and vaccination schedule. 3. Explain the gene transfer mechanisms between the prokaryotes and eukaryotes. 4. Identify mutations and DNA repair mechanisms. 5. Comprehend the process of protein synthesis and the methods of gene expression.
UCMBF20	CORE PRACTICAL II: BASIC AND APPLIED IMMUNOLOGY	<ol style="list-style-type: none"> 1. Identify the ABO blood groups and its Rh types. 2. Enumerate and observe various granulocytic and agranulocytic cells of immune system. 3. Perform serological diagnosis for the detection of typhoid, syphilis, rheumatoid factor and anti streptolysin 'o'. 4. Demonstrate the direct and indirect pregnancy testing procedure. 5. Quantitate the antigens and antibodies by performing immunodiffusion techniques.
UCMBG20	MEDICAL BACTERIOLOGY AND MYCOLOGY	<ol style="list-style-type: none"> 1. Outline the importance of Host-Parasite relationships and demonstrate the collection of various clinical specimens and processing it. 2. Explain about the diseases caused by the bacterial pathogens, prevention and treatment. 3. Discuss the different modes of transmission of bacterial diseases and its preventive measures. 4. Compare the morphological classification of fungi, and isolation of fungi from clinical specimen. 5. Compile the common mycotic diseases, their pathogenicity and various antifungal agents used for treatment.
UCMBH20	FOOD, DAIRY AND INDUSTRIAL MICROBIOLOGY	<ol style="list-style-type: none"> 1. Understand the role of microorganisms in food and the factors influencing their growth 2. Apply the principles and procedures involved in preservation of food. 3. Identifying the spoilage causing microorganisms in various foods and analysing the significance of food borne and milk borne diseases in association with public health. 4. Formulate knowledge on the fermentation process with adequate information on the fermentors and identifying industrially important microorganisms. 5. Discuss on the industrial production and purification of sauerkraut, cheese, yoghurt, organic solvents, beverages, vitamins and growth factors
UCMBI20	MOLECULAR BIOLOGY AND rDNA TECHNOLOGY	<ol style="list-style-type: none"> 1. Compare the use of various cloning vectors in gene cloning techniques and the application of genetic engineering and strain improvement using mutational rDNA technology. 2. Apply the strategies of gene cloning techniques and identify

		<p>rDNA clones.</p> <ol style="list-style-type: none"> 3. Compile the techniques of nucleic acid hybridization and DNA amplification. 4. Explain the procedure involved and applications of enzyme and algal biotechnology. 5. Discuss on the methods involved in the Production, of pharmaceutical products and the importance of Gene therapy.
UEMBA20	ELECTIVE I A: FUNDAMENTALS OF CELL BIOLOGY	<ol style="list-style-type: none"> 1. Compare the difference between plant cell and animal cell. 2. Analyze the basic components of prokaryotic and eukaryotic cells and the chemistry of its macromolecules and differentiate the roles of each cell organelles with its functions. 3. Compile the ultrastructure and function of nucleus and nucleolus. 4. Discuss on the different stages of cell division in prokaryotic and eukaryotic cells. 5. Outline the basic principles of osmosis, cell signalling and signal transduction
UEMBB20	ELECTIVE I B: ENTREPRENEURIAL MICROBIOLOGY	<ol style="list-style-type: none"> 1. Explain the historical development of industrial microbiology and outline on the importance of entrepreneur development and risk assessment. 2. Analyze the microbial cells as fermented products. 3. Demonstrate the procedures involved in mushroom cultivation and its storage method. 4. Utilize various microorganisms as biofertilizers. 5. Design and use patent in the development of entrepreneurship.
UCMBJ20	MEDICAL VIROLOGY & PARASITOLOGY	<ol style="list-style-type: none"> 1. Explain the properties, classification and cultivation of viruses. 2. Outline on the zoonotic and arthropod borne diseases. 3. Discuss about the oncogenic viruses and brief out on the importance of antiviral drugs and vaccines. 4. Describe the classification of parasites and demonstrate the laboratory diagnosis of parasitic diseases. 5. Compile the information on common parasites, protozoan and metazoan diseases.
UCMBK18	MICROBIAL ECOLOGY AND SOIL MICROBIOLOGY	<ol style="list-style-type: none"> 1. Compare the role of microbial communities in the environment and discuss on the significance of Aero and Water Microbiology 2. Assess on the microbiological aspects of management of sewage and design the treatment procedures. 3. Outline on the importance of bioremediation and biodegradation of xenobiotic compounds. 4. Familiarize with microorganisms of soil and their role in biogeochemical cycle. 5. Comprehend the importance of plant- microbe interactions
UEMBC20	ELECTIVE II A: MARINE	<ol style="list-style-type: none"> 1. Outline about the different marine environment and compare the microbial communities in the aquatic

	MICROBIOLOGY	<p>environment.</p> <ol style="list-style-type: none"> CO2: Discuss adaptations strategies of various extremophilic microorganisms, extremozymes and their importance in biotechnology. CO3: Identify the kinetics of aquatic microbial population and microbial interactions – symbiosis and antagonism. CO4: Describe about the marine food borne and water borne pathogens. CO5: Explain the production and biotechnological applications of novel marine microbial products.
UEMBD20	ELECTIVE II B: MICROBIAL NANOTECHNOLOGY	<ol style="list-style-type: none"> CO1: Outline evolution of nanoscience and hurdles in the development of nanotechnology. CO2: Understand the use spectroscopy for nanotechnology research. CO3: Discuss the role of microscopy in nanotechnology research. CO4: Utilize nano materials for drug development and its application in nuclear medicine. CO5: Apply nanotechnology for air and water treatment and become familiar with nanoscience education in India and abroad.
UEMBE20	ELECTIVE III A: CYANOBACTERIOLOGY	<ol style="list-style-type: none"> Outline the diversity of cyanobacteria. Discuss on the genomics of Cyanobacteria. Explain the molecular biology of Cyanobacteria. Describe the molecular regulation in Cyanobacteria. Demonstrate the mass cultivation and applications of Cyanobacteria.
UEMBF20	ELECTIVE III B - ADVANCED MICROBIOLOGY	<ol style="list-style-type: none"> Utilize microorganisms in the preparation of cosmetics. Evaluate the biological potential in samples return from satellites and solar system. Discuss the role of antimicrobial fabrics, carpets, tiles, colourants and produce bacteriostatic sanitary napkins and towels. Comprehend on paper, rubber and plastic Microbiology Analyze the methods for producing its antimicrobial products
UCMBL20	CORE PRACTICAL III: MEDICAL MICROBIOLOGY	<ol style="list-style-type: none"> Demonstrate collection, transport and processing of clinical specimens. Perform staining techniques for the identification of bacteria. Isolate and identify the bacterial pathogens from various clinical specimens. Prepare culture media for the cultivation of microorganisms. Analyze the clinical specimens for the examination of pathogenic fungi and parasites.
UCMBM20	CORE PRACTICAL IV: ECOLOGY, FOOD AND DAIRY	<ol style="list-style-type: none"> Assess the microbiological quality of raw milk by MBRT and Standard Plate Count test. Identify and enumerate bacteria and fungi from the spoiled

	MICROBIOLOGY	<p>foods and Rhizosphere soil.</p> <ol style="list-style-type: none"> 3. Apply the technique for the isolation of yeast from food sources. 4. Analyze the potability of water by MPN test. 5. Perform the microbial test to detect soil fertility and isolate, cultivate Rhizobium from root nodule.
USMBA20	SKILL BASED ELECTIVE: MUSHROOM TECHNOLOGY	<ol style="list-style-type: none"> 1. Communicate information about scope and importance of mushrooms. 2. Formulate media used for cultivation of mushroom and select the appropriate methods for spawn production. 3. Demonstrate mushroom cultivation technology and its preservation 4. Compile in detail about edible and poisonous mushrooms. 5. Utilize the nutritional and medicinal values of mushrooms.
USMBC20	SKILL BASED ELECTIVE: DIAGNOSTIC MICROBIOLOGY	<ol style="list-style-type: none"> 1. Explain general safety regulations and guidelines of microbiology laboratory. 2. Apply procedures in the collection and transport of clinical specimens. 3. Examine and identify the pathogenic microorganisms from clinical specimens. 4. Perform serological and molecular methods for the diagnosis of diseases. 5. Determine the sensitivity and resistance pattern of bacterial pathogens to various antibiotics.
USMBD20	SKILL BASED ELECTIVE: NUTRACEUTICALS AND FUNCTIONAL FOODS	<ol style="list-style-type: none"> 1. Explain the historical perspective, classification, scope and future prospects of nutraceuticals. 2. Discuss the nutraceuticals constituents present in various food products and the role of probiotics and prebiotics as nutraceuticals. 3. Analyze food as remedies for the common disorders. 4. Outline genetically modified plants which are commercially available and their applications. 5. Communicate the pharmaceutical applications of genetically engineered plants.
USMBE20	SKILL BASED ELECTIVE: COSMETOLOGY	<ol style="list-style-type: none"> 1. Give information about significance of cosmetics and adulteration of natural products. 2. Formulate face packs, hair oils for different types of skin and hair. 3. Analyze the structure, function and types of skin. 4. Outline the biology of hair, hair growth cycle and scalp hygiene and utilize the natural herbs for skin, hair and oral care preparations. 5. Communicate the cosmeceutical applications of micro and macroalgae.
UAMBA20	ALLIED III: MICROBIOLOGY –I	<ol style="list-style-type: none"> 1. Discuss history, recent developments and microscopy. 2. Utilize techniques of sterilization, pure culture and staining. 3. Outline classification and anatomy of bacteria. 4. Compare structural characteristics of algae, fungi and protozoa.

		5. Demonstrate measurement of microbial growth and explain classification of antibiotics with its mode of action.
UAMBB20	ALLIED IV: MICROBIOLOGY – II	<ol style="list-style-type: none"> 1. Discuss the role of microorganisms in soil and biogeochemical cycles. 2. Disseminate knowledge on the potability of water, purification of municipal water supplies and sewage treatment process 3. Communicate sources of airborne pathogens and the diseases caused. 4. Explain Food borne diseases and outline on the contamination, spoilage and preservation of food. 5. Compile on different types of fermentation and fermented microbial product.
UAMBC20	ALLIED PRACTICAL: MICROBIOLOGY	<ol style="list-style-type: none"> 1. Perform cleaning & sterilization of glasswares. 2. Analyze the concept of simple and differential staining method and Prepare basal media for the cultivation of bacteria. 3. Assess and enumerate microorganisms present in different environment. 4. Examine the quality of milk sample. 5. Demonstrate the morphology of algae and fungi.
UGMBA20	NON- MAJOR ELECTIVE: FOOD MICROBIOLOGY	<ol style="list-style-type: none"> 1. Outline the scope of food microbiology 2. Acquire knowledge on the role of microorganisms in food. 3. Prepare fermented dairy products and formulate the traditional Indian fermented products. 4. Communicate the significance of food borne diseases in association with public health. 5. Explain about the genetically modified plants which are commercially available and their applications.
UGMBB20	NON-MAJOR ELECTIVE: WASTE WATER MICROBIOLOGY	<ol style="list-style-type: none"> 1. Use the available technologies for physical, chemical and biological treatment of municipal water. 2. Demonstrate the microbiological analysis of potable water and brief out water borne diseases. 3. Outline bioremediation of pesticides, heavy metals and oil spills. 4. Explain the sewage treatment process. 5. Utilization of solid and liquid waste.
B.Sc. PHYSICS		
UCPHA20	PROPERTIES OF MATTER AND ACOUSTICS	<ol style="list-style-type: none"> 1. The properties of solids especially knowledge of elasticity help the students to identify the materials suitable for the construction of buildings, houses etc. 2. Learn the basics of properties of matter, how Young's modulus and rigidity modulus are defined and how they are evaluated for different shapes of practical relevance. 3. Properties of fluids especially knowledge of viscosity and surface tension help the students in their daily life and agriculture 4. Study the behaviour of the progressive wave 5. Learn the fundamentals of harmonic oscillator model,

		including free, damped and forced oscillators.
UCPHB20	THERMAL PHYSICS AND STATISTICAL MECHANICS	<ol style="list-style-type: none"> 1. Become familiar with various thermodynamic process and work done in each of these processes. 2. Have a clear understanding about Reversible and irreversible process 3. Learn the working of a Carnot engine, and knowledge of calculating change in entropy for various processes. 4. Realize the importance of Thermo dynamical functions and applications of Maxwell's relations. 5. Learn the relation between the entropy and probability.
UCPHD20	MATHEMATICAL METHODS AND CLASSICAL MECHANICS	<ol style="list-style-type: none"> 1. Learn about gradients, divergence and curl in orthogonal curvilinear and their typical applications in physics 2. Learn about special type of matrices that are relevant in physics and get introduced to special functions like gamma function, beta function, delta function, dirac delta function, Bessel functions and their recurrence relations 3. Analyse statistical data using measures of central tendency, dispersion. Learn the methods of skewness like Karl-Pearson coefficient, Bowleys coefficient 4. Learn about the mechanics of moving particles and the constraints. The measure of position of moving particle and the parameters required to describe the state of system. Lagrange's equation deals with position, momentum and total energy of system in motion 5. Learn about Hamiltonian functions and differences between Lagrangian and Hamiltonian. It deals with various physical applications
UCPHE20	OPTICS	<ol style="list-style-type: none"> 1. To make the students understand different types of lenses and the aberrations in it 2. Learn about dispersion by thin prism and dispersion without deviation; deviation without dispersion of prism 3. Study about interference and various interferometers used for the applications like wavelength and resolution determination and refractive index of gases 4. Learn about the concept of diffraction. Its types Fresnel's and Fraunhofer diffraction experiments and applications 5. Study about polarization, its experiments Laurent's half shade polarimetry and applications
UCPHG20	ELECTRICITY AND MAGNETISM	<ol style="list-style-type: none"> 1. Solve mathematical problems involving electric and magnetic forces, fields, and various electro-magnetic devices and electric circuits. 2. Develop explicit problem-solving strategies that emphasize qualitative analysis steps to describe and clarify the problem. 3. Import knowledge of Transient current, Alternate current 4. To present a clear & consistent picture of the Ballistic galvanometer, Figure of merit, Capacitances, Emf of cells 5. Gain confidence in their ability to apply mathematical

		methods to understand electromagnetic problems to real-life situations
UCPHH20	ATOMIC PHYSICS AND SPECTROSCOPY	<ol style="list-style-type: none"> 1. Understand the observed dependence of atomic spectral lines on externally applied electric and magnetic fields. 2. Analyse the types of photo electric cells. 3. Realize the theories explaining the structure of atoms and the origin of the observed spectra. 4. Identify the atomic effect such as Zeeman Effect and its types 5. List the different types of atomic spectra
UCPHH20	BASIC ELECTRONICS	<ol style="list-style-type: none"> 1. Learn the basic role of semiconductor and its working principle. 2. Identify and explain the various current components in a transistor. 3. Have a clear understanding about different types of oscillators and its working functions. 4. Analysis the I-V characteristic of semiconductor diodes, transistors, FET, UJT and SCR. 5. Realize the importance of special device and its applications
UEPHA20	ELECTIVE IA: DIGITAL ELECTRONICS AND COMMUNICATION	<ol style="list-style-type: none"> 1. Learn the fundamental operation of logic circuit. 2. Express the basic design and operation of arithmetic circuits. 3. Convert different type of codes and number systems which are used in digital communication system. 4. To introduce students to the basic idea of signal, modulation and demodulation techniques of analog communication. 5. To understand the concept, working principle, block diagram and key applications of AM and FM transmitting & receiving system.
UEPHB20	ELECTIVE – IB: ASTRO AND PLASMA PHYSICS	<ol style="list-style-type: none"> 1. Learn the basic theories about the sun and solar system. 2. Learn the most fascinating and important astrophysical phenomena. 3. Have a clear understanding about visible matter in the universe 4. Study the various phases of the interstellar medium inside galaxies 5. Study in detail about Cosmic Rays, Galaxy and Instrumentation
UCPHJ20	NUCLEAR PHYSICS	<ol style="list-style-type: none"> 1. Demonstrate a knowledge of fundamental aspects of the structure of the nucleus, radioactive decay, nuclear reactions and the interaction of radiation and matter. 2. Discuss nuclear and radiation physics connection with other physics disciplines – solid state, elementary particle physics, radiochemistry. 3. Describe experimental techniques used (or developed) for nuclear physics purposes semiconductor detectors and discuss their influence on development of new

		<p>technologies.</p> <ol style="list-style-type: none"> Students learn about nuclear models, nuclear reactions, and radioactivity. Students might also examine nuclear imaging, dosimetry, and isotopic dating in a course focusing on nuclear science's applications. Explore an application of nuclear and radiation physics and communicate their understanding to a group of their peers in a short presentation.
UCPHK20	RELATIVITY AND QUANTUM MECHANICS	<ol style="list-style-type: none"> Understand the concept of constant relative motion of different bodies in different frames of references To introduce students to the concept of special relativity and its applications to Physical Sciences To make the students understand the inadequacy of classical mechanics and the birth of quantum mechanics. To study role of uncertainty in quantum physics. To impart the knowledge about the postulates and the basic principles of quantum mechanics and operator formulation.
UEPHC20	ELECTIVE – II A: SOLID STATE PHYSICS AND MATERIAL SCIENCE	<ol style="list-style-type: none"> Building blocks of crystals, Bravais lattices, crystal structure, reciprocal lattice To learn lattice dynamics, phonons, density of states, specific heat, thermal conductivity To study electron theory, free model theory, band theory of metals, semiconductors and electrical conductivity Learn the basic properties of superconductors in the frame of BCS theory To study the dielectric property of various materials
UEPHD20	ELECTIVE – II B: MATERIALS SCIENCE	<ol style="list-style-type: none"> To learn about the materials properties and corrosion-oxidation of material Study about the thermal properties of material and its effect Learn about the testing of material quality To study the synthesis of nanoparticles and characterization of nanoparticles To make the students to understand the future application of nano materials
UEPHE20	ELECTIVE III A: MICROPROCESSOR 8085	<ol style="list-style-type: none"> Develop an ability to convert from binary into decimal and hexa decimal system Provide a clear internal behavior of a basic logic gates Explain the principles of registers and the block diagram of multiplexers Provide a comprehensive understanding about the usage of ROM and RAM and make the students to differentiate the working process of ROM and RAM. Enable the learners to get an in-depth knowledge in microprocessor and how to execute an instruction using processor.
UEPHF20	ELECTIVE III B: COMMUNICATION	<ol style="list-style-type: none"> Students understand the direct waves and ground waves Students understand the working of television and

	PHYSICS	RADAR 3. Analyse the types of Kepler's law 4. Students understand the principles of fiber optics 5. Realize the LED, diodes, detectors
UAPHA20	ALLIED I: PHYSICS I	1. Gains the knowledge of the properties of materials and its applications. 2. Understands the properties of liquids. 3. Able to understand the concepts of heat, superconductors and its application 4. Perceives the clear knowledge of the characteristic behaviour of sound with its applications. 5. Understand the properties of light
UAPHB20	ALLIED II: PHYSICS II	1. Gain the knowledge about electricity and properties of magnetic materials. 2. Understand the importance of Wave mechanics. 3. Able to understand the concepts of nuclear reactions and the types of accelerators and detectors. 4. Perceive the fundamental knowledge about crystallography and the advancement in the field of communication 5. Learn about rectifiers, filters and opto-electronic devices with its applications
UCPHC20	PRACTICAL – I	
UCPHF20	PRACTICAL – II	
UCPHL20	PRACTICAL III	
UCPHM20	PRACTICAL IV: APPLIED ELECTRONICS	
UAPHC20	ALLIED PRACTICAL: PHYSICS	
USPHAn20	SKILL BASED ELECTIVE:EVERYD AY PHYSICS	1. Appraise the importance of Physics in daily life. 2. Apply the knowledge to identify the components used in direct current machines 3. Describe the difference between alternating current and direct current. 4. Explain Electrical safety measurements 5. Examine the working of basic household appliances
USPHB320	SKILL-BASED ELECTIVE: ELECTRICAL APPLIANCES - I	1. Learn the effect of electric current and Safety precautions to be taken when working with electricity. 2. To Study the colour code for insulation wires 3. Study about supply of electricity to homes. 4. Study about different types of lamps and the behaviour of Lamps in series and lamps in parallel connection. 5. Study the construction and working of domestic appliances.
USPHC420	SKILL-BASED ELECTIVE: ELECTRICAL	1. Learn the importance of passive components and charges. 2. To Study the behaviour of resistance and capacitance 3. Study the applications of electric and magnetic fields.

	APPLIANCES - II	<ol style="list-style-type: none"> 4. Study the behaviour electrical appliances like inverter, UPS and lamps. 5. Study the construction, working and applications of domestic appliances.
USPHD520	SKILL BASED ELECTIVE: PHYSICS FOR COMPETITIVE EXAMINATIONS	<ol style="list-style-type: none"> 1. To know the basic laws in Physics and its applications 2. To learn the principle of optics and study the light experiments like Newton's ring and Air wedge. 3. To study and evaluate the problems in Electricity and magnetism. 4. To give an extended knowledge in atomic physics and nuclear physics to solve the problems. 5. To know the application of semiconductor materials in various electronic circuits.
USPHE620	SKILL BASED ELECTIVE: MOBILE COMMUNICATION	<ol style="list-style-type: none"> 1. To know the basics generations of mobile communication 2. To learn the cellular concept and techniques 3. To study the mobile radio propagation and concepts of diffraction, scattering and interference. 4. To attain knowledge in cell coverage for signal and traffic. 5. To understand the concepts of multiple access techniques.
UGPHAn20	NON MAJOR ELECTIVE: FUNDAMENTALS OF PHYSICS	<ol style="list-style-type: none"> 1. To learn the Students understand the Newton's law's & applications 2. To highlight the importance of transmission of heat 3. To familiarize the ultrasonic and Laser 4. To help of the students understand the concepts of Nuclear fission and Nuclear fusion 5. To derive the equation for Newton's law of gravitation and satellite motion
B.SC. VISUAL COMMUNICATION		
UCVCA20	INTRODUCTION TO VISUAL COMMUNICATION	<ol style="list-style-type: none"> 1. Indicating the Basic Concepts of Communication. 2. Analyzing the concepts of Visual cues and Visual Theories. 3. Acquiring an in-depth knowledge in Visual Analysis and Visual Stereotypes 4. Identifying the Essential aspects of Visual Language. 5. Exploring the insights of Visuals in Media.
UCVEB20	PRACTICAL - 1 - DRAWING AND DESIGN	<ol style="list-style-type: none"> 1. Classifying the Basic Drawing Skills 2. Acquiring Knowledge about Geometrical Shapes, Alphabets and Numbers and create Still life. 3. Applying the Perspective Techniques in outdoor sketching using appropriate Lights and Shades 4. Practicing Colors Using Watercolor and Poster colors 5. Implementing the Techniques to create Animals Birds and Human Forms
UAHCA20	ALLIED - I HUMAN COMMUNICATION	<ol style="list-style-type: none"> 1. Restating the Basic Concepts of Communication. 2. Acquiring Knowledge about the Barriers of Communication. 3. Describing the Various types of Verbal and Non Verbal Communication. 4. Acquiring in depth knowledge in Inter personal and Intra

		<p>Personal communication.</p> <p>5. Applying the Communication Skills in Public Speaking.</p>
UCVCC20	BASIC PHOTOGRAPHY	<ol style="list-style-type: none"> 1. Explaining the key elements of photography and its evolution. 2. Analyzing the compositional techniques and exposure controls. 3. Acquiring an in-depth knowledge about the characteristics of light, color and various lighting setup. 4. Categorizing about types of camera, lens and digital image processing. 5. Apply and practice the photography techniques in a practical way.
UCVCD20	PROFESSIONAL PHOTOGRAPHY	<ol style="list-style-type: none"> 1. Discussing the various parts and functions of the camera. 2. Acquiring knowledge in lighting and exposure techniques 3. Applying composition skills. 4. Utilizing the various filters and lenses. 5. Creating various genres of photography.
UABAA20	ALLIED – IIBASICS IN ADVERTISING	<ol style="list-style-type: none"> 1. Discussing the basic concepts of advertising and its history. 2. Acquiring basic knowledge about advertising media. 3. Analyzing the process of layout designing for an advertisement. 4. Evaluate the impact of advertisement on society. 5. Creating an advertisement for print, radio and television.
USCMA120/ USCMA220	SKILLED BASED ELECTIVE BASIC DRAWING	<ol style="list-style-type: none"> 1. Classifying the Basic Drawing Skills. 2. Acquiring Knowledge about Geometrical Shapes, alphabets and Numbers to create Still life. 3. Identifying the concept of angles of Lighting and Shading. 4. Applying the Perspective Techniques in outdoor sketching using appropriate Lights and Shades. 5. Practicing the Design and patterns in the form of Zen tangle Art.
UCVCE20	TELEVISION PRODUCTION	<ol style="list-style-type: none"> 1. Describing the phases and development of television production. 2. Acquire an in-depth knowledge about preproduction stages of television production. 3. Explaining the camera operation techniques and implementation. 4. Analyze the lighting techniques and production management. 5. Acquire a profound knowledge in post-production techniques.
UCVCF20	PRACTICAL III -COMPUTER GRAPHICS	<ol style="list-style-type: none"> 1. Explaining the Tools and Techniques of Adobe Photoshop. 2. Applying the knowledge of the tool in designing logos, visiting cards and letter head. 3. Creating print advertisements like brochures, pamphlet, banners and magazine with the usage of proper techniques. 4. Applying the techniques effectively to create personalizes greeting cards and Cd covers

		5. Compiling and implementing all the techniques learnt, to create image manipulation.
UASWA20	ALLIED III - SCRIPT WRITING	<ol style="list-style-type: none"> 1. Describing the basic concepts of script preparation and its models. 2. Analyze the dramatic structure and forms of script writing. 3. Learning the various forms of writing for visual mediums. 4. Draw the basic writing elements of radio production. 5. Apply and evaluate the writing skills.
USCMC320	SKILLED BASED ELECTIVE – III ART OF STORY BOARD	<ol style="list-style-type: none"> 1. Discussing the planning processes of visual storytelling. 2. Sketching the art of story boarding process 3. Experimenting the field view shorts and angle 4. Explore the basic storyboard techniques. 5. Creating the storyboard with the learned technique.
UCVCG20	MEDIA, CULTURE AND SOCIETY	<ol style="list-style-type: none"> 1. Report and Restate the elements of society and its theories. 2. Illustrate the characteristics of culture and its models. 3. Analyze the various models of media and Categories the ecological perspective of media audience 4. Analyze the various models of media. 5. Evaluate the social issues of media.
UCVCH20	POST PRODUCTION EDITING	<ol style="list-style-type: none"> 1. Explaining the various tools and workspace of adobe premiere pro. 2. Using various effects and techniques. 3. Applying the titling and adding sound effects 4. Creative synchronization of song and scene remix 5. Create a short film or documentary using editing techniques.
UAJLA20	ALLIED – IV- JOURNALISM	<ol style="list-style-type: none"> 1. Explaining the basic concepts of journalism. 2. Analyzing the newspaper organization and its ethical codes. 3. Evaluating the role of journalist in the stream of electronic media. 4. Classifying the duties and responsibilities of Television journalist. 5. Acquiring the Knowledge and process of online journalism.
USCMD420	SKILLED BASED ELECTIVE – IV INTRODUCTION TO ART DIRECTION	<ol style="list-style-type: none"> 1. Explaining the basic concepts of art direction. 2. Analyzing the various works of the prominent art directors. 3. Acquiring in-depth knowledge about the creation of set models. 4. Compiling the technical aspects of set direction. 5. Acquiring the stage management skills.
UCVCI20	MEDIA RESEARCH	<ol style="list-style-type: none"> 1. Restating the Types and Characteristic of Research. 2. Analyzing the Research Process. 3. Acquiring an in depth Knowledge in Sampling Techniques. 4. Discussing the Qualitative and Quantitative Research Methods. 5. Acquiring Knowledge in Data Analysis and Presentation.
UCVCJ20	FILM	<ol style="list-style-type: none"> 1. Identifying the concepts of Film as a Mass medium and its

	APPRECIATION	<p>Production Stages.</p> <ol style="list-style-type: none"> 2. Acquire an In-depth knowledge in Film Language. 3. Analyze about origin of Indian Cinema. 4. Exploring the Film making Techniques in World Cinema 5. Distinguish the Film genres.
UCVCK20	DIGITAL PUBLIC RELATIONS	<ol style="list-style-type: none"> 1. Summarize the Concepts and Scope of Public Relations in different sectors. 2. Evaluating the Process of PR and acquiring the profound knowledge in Public relation writing. 3. Analyzing the corporate, social and ethical Responsibilities of PR. 4. Examine the different roles of Digital PR 5. Preparing and presenting a PR campaign on social issues
UCVCL20	PRACTICAL V - 2D ANIMATION	<ol style="list-style-type: none"> 1. Locating the Various tools and workspace of Adobe Animate software 2. Acquiring the knowledge in basic Animation Techniques. 3. Apply and usage of Button in Animated Greeting Cards. 4. Prepare an Online Web Advertisement. 5. Applying the Concept of Transition in Slideshows.
UCVCM20	PRACTICAL VI -INTERNSHIP	<ol style="list-style-type: none"> 1. Outline the concepts of News production in Television Medium. 2. Acquiring an in-depth knowledge in the Respective Media Industry. 3. Compiling the Types of Work done in News Production. 4. Evaluating the Experience gained in News Production. 5. Substantiate the Report with proper documents.
UCVCN20	DOCUMENTARY PRODUCTION	<ol style="list-style-type: none"> 1. Analyzing the Concepts of Documentary production. 2. Implementing the Pre-Production process of Documentary. 3. Executing the Production process of Documentary. 4. Compile the Post Production Activities according to the Script. 5. Presenting the Documentation with Master Copy.
USCMD520	SKILL BASED ELECTIVE – 1 – E- CONTENT PRODUCTION	<ol style="list-style-type: none"> 1. Describing the Planning Process of E-content development 2. Acquiring the In-depth knowledge about the E-content design 3. Selecting the Appropriate Methods to Implement the E-content design 4. Applying and testing the E-content course material 5. Executing and publishing the E-contents for formal education.
UCVCO20	MEDIA LAWS AND ETHICS	<ol style="list-style-type: none"> 1. Explaining the Concept of Media Laws and Rights 2. Reviewing Various Media Acts and its uses. 3. Acquire an in depth Knowledge in Media Laws. 4. Analyzing the Cyber Laws and Regulations. 5. Examine the Media Regulatory Authority Bodies.
UCVCP20	INTRODUCTION TO ICT AND NEW MEDIA	<ol style="list-style-type: none"> 1. Identifying the Concept of Internet and its Features. 2. Acquiring the Knowledge in Usage of ICT in Print Media. 3. Applying the Techniques of ICT in Electronic Media. 4. Implementing the ICT tools and techniques in New Media.

		5. Analyzing the Connectivity issues in New Media.
UCVCQ20	PRACTICAL VII- WEB DESIGNING	<ol style="list-style-type: none"> 1. Acquiring the Basic Knowledge about Adobe Dreamweaver. 2. Locating the Various Tags used for Creating web pages. 3. Designing the Navigation Structure for Web Pages. 4. Creating the Webpage and Making Links. 5. Adding Various Effects to Web Pages
UEVCA20	ELECTIVE II A: E_CONTENT DEVELOPMENT	<ol style="list-style-type: none"> 1. Explain the basic concepts of E-content 2. Analyzing the types and models of E-content 3. Acquiring the knowledge and presentation on E-content. 4. Evaluating the E-learning platforms and technologies 5. Executing and publishing the E-contents for formal education
UEVCB20	ELECTIVE II B: MEDIA MANAGEMENT	<ol style="list-style-type: none"> 1. Discussing the Concepts of Management Principles. 2. Acquiring the knowledge in Structure of News Media Companies. 3. Utilizing the Internet in the Electronic Media Management 4. Applying the Ethical Codes effectively in the Media Management. 5. Evaluating the Ownership Patterns of Electronic Media Management.
UCVCR20	SHORT FILM PRODUCTION	<ol style="list-style-type: none"> 1. Identifying the Concepts of Short film production. 2. Implementing the Pre-Production process of Short film. 3. Executing the Production process of short film. 4. Compile the Post Production Activities according to the Script. 5. Presenting the Documentation with Master Copy.
USCMD620	SKILLED BASED ELECTIVE- VI- DIGITAL PUBLISHING	<ol style="list-style-type: none"> 1. Select the Various Type Faces. 2. Acquiring the Knowledge in the process of Printing. 3. Analyzing the Substrates used for Printing. 4. Acquiring the Knowledge in final Printing Process. 5. Implementing the Creative ideas in Printing Process.
UGCMA620	NON MAJOR ELECTIVE - 1 -DEMOCRACY AND MEDIA	<ol style="list-style-type: none"> 1. Restate the concepts of democratic media and its rights. 2. Analyzing the capitalized Media and its Business. 3. Examine the policy of the Democratic Media 4. Discover the emergency of digital news platforms 5. To find the relationship between the social media alternative media & democracy.
UGCMB620	NON MAJOR ELECTIVE – 1I- ADVERTISING	<ol style="list-style-type: none"> 1. Describing the basic concepts of advertising and its history. 2. Acquiring basic knowledge about advertising Concepts. 3. CAnalyzing the process of layout designing for an advertisement. 4. Evaluate the impact of advertisement on society. 5. Implementing the advertisement concept for print, radio and television.

B.Sc. ZOOLOGY

UCZOA20	INVERTEBRATA	<ol style="list-style-type: none">1. Discuss general classification, binomial nomenclature and Phylum Protozoa.2. Explain the classification up to class level, type study and salient features of Phylum Porifera and Coelenterata.3. Elaborate the classification up to class level, type study and salient features of Phylum Platyhelminthes and Aschelminthes.4. Discuss the classification up to class level, type study and salient features of Phylum Annelida and Arthropoda.5. Explain the classification up to class level, type study and salient features of Phylum Mollusca and Echinodermata.
UCZOB20	CHORDATA	<ol style="list-style-type: none">1. Explain taxonomic status of vertebrates and its origin and Evolution.2. Describe anatomy and functions of systems in vertebrates.3. Discuss adaptive radiations in vertebrates.4. Explain the salient features of chordates.5. Explain the structural, functional and phylogenetic significance of chordates.
UCZOC20	CORE PRACTICAL– I INVERTEBRATA AND CHORDATA	<ol style="list-style-type: none">1. Acquire knowledge about the digestive, circulatory and nervous system of arthropods and vertebrates.2. Prepare mounting of the mouth parts of insects.3. Analyze the biological significance of invertebrates and vertebrates.4. Distinguish structure and function of invertebrates and vertebrates.5. Justify the importance of evolutionary significance of animals, oosteology and dentition in mammals.
UCZOD20	CELL BIOLOGY AND BIOINSTRUMENTAT ION	<ol style="list-style-type: none">1. Recall the cell theory, Distinguish between Prokaryotes and Eukaryotes.2. Summarize the structure and functions of Cell Organelles.3. Explain the structure and function of Nucleic acids.4. Discuss the construction and applications of Microscopes, Centrifuges and Homogenizers.5. Describe the types and applications of Chromatography and Electrophoresis.
UCZOE20	GENETICS AND EVOLUTION	<ol style="list-style-type: none">1. Demonstrate the Mendelian inheritance. Understand the genetic interactions.2. Discuss Linkage, Crossing over, cytoplasmic inheritance and sex determination.3. Analyze the types of Gene Mutation, Chromosomal aberrations, syndromes and inborn errors in metabolism.4. Explain Population Genetics5. Recall the theories of Evolution, adaptations and human evolution.
UCZOF20	CORE PRACTICAL II- CELL BIOLOGY , BIOINSTRUMENTAT ION AND GENETICS	<ol style="list-style-type: none">1. Observe the structure of different types of tissue and the stages of cell division.2. Demonstrate preparation of buccal smear and squash preparation of onion root tip.

		<ol style="list-style-type: none"> 3. Demonstrate the skill of focusing, calibrating a microscope and learn the principle, working of laboratory instruments. 4. Enumerate the Differential count of WBC, total count of WBC and RBC. Identify the blood group, simple Mendelian traits and syndromes. 5. Observe and study the life cycle of drosophila, polytene giant chromosome and the common mutants.
UCZOG20	DEVELOPMENTAL BIOLOGY	<ol style="list-style-type: none"> 1. Discuss gametogenesis and types of eggs and egg membranes. 2. Explain the mechanism and physiology of Fertilization, parthenogenesis and cleavage. 3. Explain gastrulation and organogenesis in mammals. 4. Discuss human reproduction 5. Discuss Assisted Reproductive Technologies.
UCZOH20	PHYSIOLOGY	<ol style="list-style-type: none"> 1. Interpret digestion and metabolism. 2. Analyse the interaction between circulatory system and respiratory system. 3. Analyse the function of excretory system and illustrate muscle contraction. 4. Illustrate the structure and function of nervous system. 5. Compare the structure and function of endocrine system.
UCZOI20	BIOSTATISTICS	<ol style="list-style-type: none"> 1. Identify and collect different types of data and select samples for biological studies 2. Classify and tabulate the data and present them diagrammatically and graphically 3. Discuss theoretical distribution. Compute mean, median and mode. 4. Explain and compute measures of dispersion. 5. Compute t-test; F-test; Chi square test for biological studies.
UCZOJ20	BIOTECHNOLOGY	<ol style="list-style-type: none"> 1. Explain the scope and branches of Biotechnology and summarize Genetic Engineering. 2. Describe Cloning strategies. 3. Explain Gene transfer mechanism and Blotting Techniques. 4. Demonstrate Animal Cell Culture and explain the applications of cell culture. 5. Discuss the applications of Genetic Engineering in various fields.
UCZOK20	ENVIRONMENTAL BIOLOGY	<ol style="list-style-type: none"> 1. Explain ecology its branches and abiotic and biotic components of ecosystem. 2. Discuss animal association, biogeochemical cycle and Ecosystem and its functions. 3. Discuss the structure and functions of terrestrial and aquatic ecosystems. 4. Describe the Characteristics of population, Community and Ecological Succession 5. Discuss the causes of pollution their control measures and wildlife management.

UEZOA20	MAJOR ELECTIVE IA- ECONOMIC ZOOLOGY	<ol style="list-style-type: none"> 1. Demonstrate culture techniques of apiculture, sericulture, lac culture and vermiculture. 2. Illustrate the preparation and management of fish culture ponds. 3. Differentiate breeds of fowl and describe poultry and piggery management. 4. Discuss Dairy farming and tanning process. 5. Explain processing of wool, fur and obtains insight of pharmaceutical products from animals.
UEZOB20	MAJOR ELECTIVE IB-VERMICULTURE	<ol style="list-style-type: none"> 1. Identify various groups of earthworms and impact of earthworm on soil. 2. Describe large and small scale composting methods. 3. Explain the factors affecting vermicomposting and preparation of vermibed. 4. Discuss the use of vermicompost and vermiwash in agriculture and horticulture. 5. Elaborate the role of earthworm in agriculture, fishing, medicine and pollution and promotion of vermiculture.
UEZOC20	ELECTIVE - II A - MICROBIOLOGY	<ol style="list-style-type: none"> 1. Describe the structure and function of bacteria and virus. 2. Apply the process of media preparation and bacterial culture. 3. Discuss the various sterilization techniques and chemotherapeutic agents. 4. Discuss the role of microbes in food production and preservation. 5. Discuss the disease causing microorganisms.
UEZOD20	ELECTIVE - II B- BIOINSTRUMENTATION	<ol style="list-style-type: none"> 1. Apply the principle and construction of the instruments. 2. Demonstrate the usage of the instruments. 3. Illustrate the working method of various techniques. 4. Discuss the application of the techniques. 5. Apply the skill of instrumentation and micro techniques.
UEZOE20	ELECTIVE -III A- IMMUNOLOGY	<ol style="list-style-type: none"> 1. Describe the primary and secondary lymphoid organs. 2. Categorize types of immunity and the cells involved in immunity. 3. Analyse the structure and function of antigens and antibodies. 4. Examine the antigen antibody reaction and its role in transplantation, hypersensitivity, autoimmunity and AIDS. 5. Analyse immunization and its importance in prevention of diseases.
UEZOF20	ELECTIVE - III B- PARASITOLOGY	<ol style="list-style-type: none"> 1. Discuss about parasites. 2. Describe host parasite interaction. 3. Discuss pathology of protozoan parasites. 4. Describe the pathology of Helminth parasites. 5. Explain Arthropod role as parasites and vectors.
UCZOL20	CORE PRACTICAL III- PHYSIOLOGY, DEVELOPMENTAL BIOLOGY, AND	<ol style="list-style-type: none"> 1. Demonstrate experiments in Physiology. 2. Demonstrate expertise in handling instruments. 3. Identify developmental stages, placenta and histology in development biology.

	ECONOMIC	<ol style="list-style-type: none"> 4. Apply equipments used in rearing techniques. 5. Discuss the economic importance of animals.
UCZOM20	COREPRACTICAL IV– ENVIRONMENTAL BIOLOGY, BIOTECHNOLOGY, MICROBIOLOGY AND IMMUNOLOGY	<ol style="list-style-type: none"> 1. Demonstrate procedures in Ecology and immunology. 2. Identify the adaptation of animals in the ecosystem. 3. Apply the principle, working and application of instruments used biotechnology. 4. Discuss microbes and the disease caused by them. 5. Describe Lymphoid organs and immunoglobulins.
USZOA120/ USZOA220	SKILL-BASED COURSE - I - PUBLIC HEALTH AND HYGIENE	<ol style="list-style-type: none"> 1. Impart knowledge about health and diseases. 2. Acquire knowledge about nutrition and classification of food. 3. Analyze the interaction and impact of the environment on health. 4. Expand knowledge about communicable diseases and its prevention. 5. Improve the quality of life through prevention and treatment of non-communicable disease.
USZOC320	SKILL-BASED ELECTIVE-II– SERICULTURE	<ol style="list-style-type: none"> 1. Enlist different variety of silkworms and their economic status 2. Explain about mulberry cultivation 3. Expand knowledge on utilizing silkworm rearing appliances. 4. Elucidate an indulgent of silkworm mounting, silkworm rearing, and silkworm reeling operations. 5. Indicate and identify diseases in silkworms and recognize their enemies to take necessary control measures.
USZOD420	SKILL BASED ELECTIVE-II -POULTRY KEEPING	<ol style="list-style-type: none"> 1. Acquire Knowledge on different types of breeds of Fowls 2. Describe the essentials and maintenance of a good house 3. Compare the different types of rearing methods 4. Discuss the feeding requirements and its management 5. Explain the nutritive value and products of poultry. Identify Poultry diseases and vaccination Schedule.
USZOE520	SKILL-BASED ELECTIVE-III -ORNAMENTAL FISH KEEPING	<ol style="list-style-type: none"> 1. Discuss the importance, design and maintenance of an aquarium. 2. Explain the aquarium plants and usage of various accessories required for an aquarium. 3. Discuss the feed requirement, formulation and various live bearing fishes. 4. Differentiate the Egg laying fishes, marine fishes and other organisms in an aquarium. 5. Attain understanding on loan availability and export potential.
USZOF620	SKILL-BASED ELECTIVE-III- ANIMAL BEHAVIOUR	<ol style="list-style-type: none"> 1. Familiarize with various techniques to study the animal behaviour in lab and in Wild. 2. Analyze the various modes of communication, locomotion foraging and Caching. 3. Comprehend the process of learning, memory, hormonal and neural systems.

		<ol style="list-style-type: none"> 4. Compute the social organization and to differentiate behaviour. 5. Study the adverse effects and cure for abnormal behaviour among the Wild domestic and pet animals.
UGZOA520/ UGZOA620	NON MAJOR ELECTIVE -MATERNAL AND CHILD PSYCHOLOGY	<ol style="list-style-type: none"> 1. Comprehend the puberty, natal periods and maternal changes. 2. Explain the growth, developmental stages and motor skills 3. Gains insights on the stages of cognitive development and personality. 4. Familiarize different emotions, emotional development and moral development. 5. Identify, classify and differentiate the gifted, mentally retarded and backward children.
B.Sc. PSYCHOLOGY		
UCPYA20	GENERAL PSYCHOLOGY - I	<ol style="list-style-type: none"> 1. Understand the origin of psychology as science and acquire knowledge of the various scientific methods used in psychology to understand human behaviour 2. Define the concepts and explain sensation, perception and attention 3. Demonstrate the structural features of Consciousness 4. Explain the role of Learning, and compare the various theories of learning 5. To understand the fundamental processes of Memory
UCPYB20	BIOLOGICAL PSYCHOLOGY - I	<ol style="list-style-type: none"> 1. Comprehend human biology and its influence on human behaviour 2. Outline the Foundations of behaviour and brain activity 3. Demonstrate the structure and functions of the Neurons 4. Explain the role of Neurotransmitter 5. Demonstrate and summaries the structure and functions of the developement of the central nervous system 6. To understand the influence of various Hormones on behaviour
UAPMA20	ALLIED-I- PRINCIPLES OF MANAGEMENT	
UCPYC20	GENERAL PSYCHOLOGY – II	<ol style="list-style-type: none"> 1. Understand the basic aspects of cognition and behaviour 2. Demonstrate the process of motivation and frustration 3. Explain the underlying principles of physiological basis of emotion and stress 4. Elaborate on the attributes of creativity and Intelligence 5. Compare and contrast the various approaches of personality
UCPYD20	BIOLOGICALPSYC HOLOGY – II	<ol style="list-style-type: none"> 1. Explain the Circadian rhythms, sleep and dreaming patterns 2. Demonstrate the brain development 3. Understand the biological basis of thirst and hunger 4. Elaborate biological basis of emotions 5. Explain biological basis of Learning and memory

UAOBA20	ALLIED- II- ORGANIZATIONAL BEHAVIOR	
UCPYE21	DEVELOPMENTAL PSYCHOLOGY - I	<ol style="list-style-type: none"> 1. Understand the developmental stage of conception through birth 2. Gain knowledge on human physical growth and development across life-span 3. Explain the developmental stages of infancy and babyhood 4. Perceive the various developmental processes of early and late childhood 5. Relate various developmental stages of socialization, family, relations and personality development
UCPYF21	HEALTH PSYCHOLOGY	<ol style="list-style-type: none"> 1. Explain the basics of Health Psychology and health behaviour 2. Understand theoretical models relating to health and change to healthy habits 3. Gain knowledge about chronic illness and pain 4. Summarize concepts of stress and coping 5. Determine and Promote healthy behaviour in self and others
UCPYG21	DEVELOPMENTAL PSYCHOLOGY – II	<ol style="list-style-type: none"> 1. Understand the developmental process of puberty and adolescence 2. Relate the various development process of young adulthood 3. Explain the developmental tasks of middle age 4. Identify problems related to old age 5. Gain knowledge about hazards and happiness in human life-span
UCPYH21	INTRODUCTION TO THEORIES OF PERSONALITY	<ol style="list-style-type: none"> 1. Understand the concepts, assessment, measurement and research methods pertaining to Personality 2. Outline the various psychoanalytical perspectives of Personality 3. Summarize life span and trait perspective of Personality 4. Illustrate the existential humanistic perspective of Personality 5. Explain Behavioural, Cognitive and Social perspectives of personality
UAPYA21	ALLIED PAPER- STATISTICS IN PSYCHOLOGY	<ol style="list-style-type: none"> 1. Understand the basic concepts of some advanced distributions. 2. Apply estimation theory to estimate the values of parameters. 3. Use appropriate sampling distributions for testing of hypothesis. 4. Determine correlation and regression for the investigation of relationship between the variables. 5. Apply chi-square test to find out the significant difference between expected and observed frequencies in one or more categories.

USPYA21	SKILL BASED ELECTIVES: PSYCHOLOGY FOR HEALTH AND WELL-BEING	<ol style="list-style-type: none"> 1. Familiarize oneself with the major premises of bio-medical model. 2. Understand the role of biological, social and psychological factors in health and illness. 3. Comprehend holism and holistic health approach and know the benefits of holistic care
USPYB21	EFFECTIVE LEADERSHIP	<ol style="list-style-type: none"> 1. Demonstrate effective communicative skills 2. Learn various strategies which will enable them to make good decisions in life 3. Comprehend patterns, both inside and outside of the formal leadership role 4. Appreciate the significance of working in a team to be more influential on the society
USPYC21	ENVIRONMENTAL PSYCHOLOGY	<ol style="list-style-type: none"> 1. Identify the key concepts in the field of environmental psychology 2. Comprehend major theories dealing with human-environmental relations 3. Introduce the methods in the study of human perception and behaviour in the field of environmental psychology 4. Analyze environment related issues from a psychological point of view
UAVCB21	MEDIA,CULTURE AND SOCIETY	<ol style="list-style-type: none"> 1. Report and restate the element of society and its theories 2. Illustrate the characteristics of culture and its model 3. Analyze the various model of media and categories the ecological perspective of media audience 4. Analyze the various model of media 5. Evaluate the social issue of media
USPYD21	EMOTIONAL INTELLIGENCE	<ol style="list-style-type: none"> 1. Comprehend basic models of EQ 2. Draw relation between emotions, thoughts and behaviour 3. Learn some basic techniques to manage emotions 4. Analyze the role of emotions on performance
USPYE21	YOUTH PSYCHOLOGY	<ol style="list-style-type: none"> 1. Comprehend significant physical, psychological, and social transitions in growth 2. Study the development, well-being, and mode of functioning of young people. 3. Understand the mental, emotional, and behavioural needs of adolescents. 4. Learn ways to positively influence the immediate and future health of young people. 5. Comprehend the significance of the period of adolescence
USPYF21	INTERGROUP RELATIONS	<ol style="list-style-type: none"> 1. Comprehend interactions between individuals in different social groups significant physical, psychological, and social transitions in growth 2. Understand collective behaviour 3. Study the strength and limitation of intergroup relations
UCPYJ22	ABNORMAL PSYCHOLOGY - I	<ol style="list-style-type: none"> 1. Explain abnormal behavior and the need for classification. Use ICD 11 and DSM V manuals. 2. Appraise any disorder from multiple perspectives to gain a

		<p>deeper understanding into the triggers, causes and underlying factors.</p> <ol style="list-style-type: none"> Identify disorders related to neurodevelopment. Identify cases pertaining to different anxiety related disorders. Distinguish between the different somatic disorders and dissociative disorders. Relate theoretical knowledge to rudimentary treatment suggestions.
UCPYI22	SOCIAL PSYCHOLOGY - I	<ol style="list-style-type: none"> State the theories of Social Psychology Relate with the theories of attribution Infer the attitude changes of people over time Sketch out the requirements for interpersonal relationship Interpret the benefits out of altruistic behaviors
UCPYK22	INTRODUCTION TO RESEARCH METHODOLOGY	<ol style="list-style-type: none"> Understand the meaning of research and the principles that govern it. Identify the research problem and hypothesis. Describe different methods of sampling and choose an appropriate sampling method for their research. Compare different data collection methods. Collect data through different methods learnt. Acquire knowledge on research process and to write a structured report.
UCPYL22	EXPERIMENTAL PSYCHOLOGY-I	
UEPYA22	ELECTIVE - GUIDANCE AND COUNSELLING PSYCHOLOGY	<ol style="list-style-type: none"> Summarize the nature, goals and fields of counselling. Infer relevant approaches for different counselling cases. Use appropriate diagnostic tools to identify the presenting issues Nurture qualities and skills required for effective counselling Describe different areas in counselling.
UEPYB22	ELECTIVE - POSITIVE PSYCHOLOGY	<ol style="list-style-type: none"> Define positive psychology and its related construct Relate positive emotions with Well-being and happiness Formulate effective self-regulation Identify positive cognitive states and their processes. Apply positive psychology in different settings.
USPYE522	SKILL BASED ELECTIVE - COMMUNICATIVE SKILLS	<ol style="list-style-type: none"> Understand basic components of communication. Develop basic skills required for communication. Utilize different modes of communication efficiently.
UCPYN22	ABNORMAL PSYCHOLOGY II	<ol style="list-style-type: none"> Discuss symptomatic criteria, and treatment of mood disorders. Identify symptoms and causes of schizophrenia and psychotic symptoms. Distinguish between different clusters of personality disorders and identify them. Summarize the concepts, symptoms and treatments of various addiction related disorders.

		5. Relate psychotherapeutic knowledge to various disorders.
UCPYM22	SOCIAL PSYCHOLOGY -II	<ol style="list-style-type: none"> 1. Identify the elements of persuasion and related theories 2. Relate the group influence on individuals 3. Demonstrate the consequences of group antagonism 4. Discuss and analyse various theories of aggression and strategies to reduce aggression. 5. Summarize on liking, love and close relationships.
UCPYO22	EXPERIMENTAL PSYCHOLOGY-II PRACTICAL	
UEPYC22	ELECTIVE - SUBSTANCE USE AND COUNSELLING	<ol style="list-style-type: none"> 1. Explain theories and concepts related to addiction. 2. Discuss causes, symptoms, and treatment for alcohol addiction disorder 3. Summarize the causes, effects, and treatment of nicotine addiction. 4. Compare different opioids, cannabis and their effects 5. Describe substance abuse management techniques and therapy.
UEPYD22	ELECTIVE - SCHOOL COUNSELLING	<ol style="list-style-type: none"> 1. Recognize the character and functions of a school counsellors. 2. Explore common issues faced by children and adolescence. 3. Outline negative behaviour and ways of counselling both victims and offenders. 4. Develop a stronger sense of self and wellbeing in themselves. 5. Facilitating and enhancing their strengths (children and adolescent) at school level.
USPYF22	SKILL BASED ELECTIVE - CONSUMER BEHAVIOUR	<ol style="list-style-type: none"> 1. Define consumer behaviour and the different kinds of consumers. 2. Relate factors influencing consumer behaviour to exist marketing strategies of brands and advertisements. 3. Recall theoretical concepts regarding consumer attitudes and communicate across them. 4. Analyse the influence of family, money and social class on a consumer's decisions. 5. Break down the decision-making process and patterns of buying of both consumers and organizational buyers for effective marketing strategies.
UCPYP22	COMPULSORY PROJECT	
B.COM BANKING AND INSURANCE		
UCBIA20	FUNDAMENTALS OF BANKING	<ol style="list-style-type: none"> 1. Identifies various types of Banks. 2. Able to access Bank account 3. Able to utilize variety of negotiable instruments 4. Able to analyze the role of paying Banker 5. Able to identify customer rights and Sort-out issues through Banking ombudsman

UCBIB20	PRINCIPLES OF ACCOUNTING	<ol style="list-style-type: none"> 1. Acquire conceptual knowledge on basics of accounting 2. Identify events that need to be recorded in the accounting statements. 3. Prepares final accounts 4. Identify and prepare various subsidiary books 5. Able to prepare Bank Reconciliation statement.
UCBIC20	PRINCIPLES OF INSURANCE	<ol style="list-style-type: none"> 1. Understands basic Concepts and principles of insurance 2. Able to differentiate Life and Non-Life insurance policies 3. Able to follow the procedures to apply for fire insurance Policy and settlement of claim 4. Able to claim settlement from marine insurance Policy 5. Able to choose various insurance Policies based on their needs
UCBID20	FINANCIAL ACCOUNTING	<ol style="list-style-type: none"> 1. Able to calculate depreciation for fixed assets. 2. Able to Compare, Contrast, and solve single entry to double entry system. 3. Able to prepare Bill of exchange account 4. Identifies and differentiate hire purchase and instalment system 5. Prepare Fire Insurance Claim Statements.
USBIA120	SKILL-BASEDELECTIVE-IBUSINESS COMMUNICATION	<ol style="list-style-type: none"> 1. Demonstrate students for Effective Business communication skills 2. Able to prepare business related letters 3. Able to prepare various types of Bank correspondence 4. Able to prepare Insurance correspondence 5. Able to prepare Business reports
UCBIE20	BANKING LEGALITIES AND REGULATIONS	<ol style="list-style-type: none"> 1. Understands basic legal and regulatory framework of the banking system 2. Able to access various banking operations 3. Acquire knowledge about banking laws and their regulations 4. Aware of debt recovery procedures 5. Aware of Consumer Rights.
UCBIF20	ALLIED -COST ACCOUNTING	<ol style="list-style-type: none"> 1. Familiarize the concepts of Cost accounting 2. Apply material control techniques. 3. Measures labor cost and overhead cost. 4. Prepares Process accounts 5. Evaluates profit or loss of a contract.
UCBIG20	PRINCIPLES OF MANAGEMENT	<ol style="list-style-type: none"> 1. Understands the Conceptual idea of management. 2. Demonstrate the skills of planning and decision making. 3. Aware of principles of organizing. 4. Familiarize with motivational factors. 5. Identifies various leadership styles.
UEBIA20	ELECTIVE I A - MARKETING IN BANKING AND INSURANCE	<ol style="list-style-type: none"> 1. Understands the Concepts of service marketing. 2. Identifies the role of 7P's in service marketing 3. Differentiates internal marketing from external marketing. 4. Identifies customer relationship management of any service sector. 5. Acquires the knowledge on marketing mix in marketing

		Banking and Insurance products.
UEBIB20	ELECTIVE I B - ENTREPRENEURSHIP DEVELOPMENT	<ol style="list-style-type: none"> 1. Understands the Concepts of Entrepreneurship. 2. Apply for financial assistance. 3. Develops new business ideas. 4. Evaluates entrepreneurial development programmed and related schemes. 5. Establish as a woman entrepreneur and Contribute to the society.
UAMEA20	ALLIED - MANAGERIAL ECONOMICS	<ol style="list-style-type: none"> 1. Understand the Concepts of Managerial Economics. 2. Able to analyze the demand patterns of the market. 3. Able to compute Breakeven Point. 4. Able to Compare various pricing strategies prevailing in the market. 5. Demonstrates the decision -making skills under different marketing structure.
USBIC20	SKILL BASED ELECTIVE - BANKING AND INSURANCE PRACTICALS	<ol style="list-style-type: none"> 1. Able to fill the forms related to banking sector 2. Able to fill the various loan applications forms 3. Access the E - banking facilities 4. Able to fill the Insurance forms 5. Ability to fill the claim forms
UCBIH20	REGULATORY FRAMEWORK OF BUSINESS AND INSURANCE	<ol style="list-style-type: none"> 1. Able to understand the provisions of Indian Contract Act 1972. 2. Acquire knowledge on the sale of goods act. 3. Aware of various acts related to Insurance. 4. Understands the provisions of IRDA act. 5. Able to choose suitable insurance Policies based on their needs.
UCBII20	ACCOUNTING FOR MANAGEMENT	<ol style="list-style-type: none"> 1. Understands management accounting. 2. Analyze various ratios and develops capability to make decision. 3. Prepares Fund Flow statement. 4. Prepares cashflow statement. 5. Calculates marginal cost.
UCBIJ20	ELECTIVE IIA - RESEARCH METHODOLOGY	<ol style="list-style-type: none"> 1. Understands research and its procedures. 2. Identifies problem and use SPSS to analyse it. 3. Identifies appropriate sample size and sampling methods for research 4. Apply a suitable data collection method to extract reliable information 5. Prepares project report with appropriate suggestions contributing to the society
UCBIK20	ALLIED -TAXATION - LAW AND PRACTICE	<ol style="list-style-type: none"> 1. Able to understand the provision and Compute Salary Income. 2. Able to compute income from house property. 3. Compute income from Capital Gain. 4. Able to compute profit and gain of Business or Profession. 5. Able to calculate income chargeable to Tax under other sources
UAIBA20	ELECTIVE II B-	<ol style="list-style-type: none"> 1. Understands the impact of globalization towards

	INTERNATIONAL BUSINESS	<p>International business</p> <ol style="list-style-type: none"> 2. Aware about the functions of WTO, and UNCTAD. 3. Ability to make money management decisions. 4. Understands various operations involved in International business. 5. Aware of documents required for export and import.
USBID20	SKILL BASED ELECTIVE -HUMAN RESOURCE MANAGEMENT	<ol style="list-style-type: none"> 1. Understands the need for Human resource management. 2. Demonstrates the knowledge of differentiating Job evaluation and job analysis. 3. Identifies various motivational factors. 4. Understands the Recruitment procedure and selection Policy of various sectors. 5. Able to identify the type of Training method and performance appraisal method required.
UCBIL20	ACCOUNTING FOR BANKING AND INSURANCE	<ol style="list-style-type: none"> 1. Understands the procedures for issue of shares and able to apply for shares in the Companies. 2. Able to Compute accounts related to redemption of preference shares 3. Prepares final accounts life insurance Companies as per IRDA regulations. 4. Prepares final accounts of marine insurance Companies as per IRDA regulations. 5. Prepares profit & loss accounts and Balance sheet of Banking Companies
UCBIM20	CORPORATE LAWS	<ol style="list-style-type: none"> 1. Understands the frameworks of The Companies Act 2013. 2. Identifies the procedures of appointment and role of directors. 3. Understands and differentiates the need for articles of association and memorandum of association. 4. Aware and apply the knowledge about rights of employees. 5. Finds out the reason for winding up of Companies.
UCBIN20	PRACTICAL AUDITING	<ol style="list-style-type: none"> 1. Students will be versed in Concepts of auditing 2. Apply various audit programme 3. Able to vouch various trading transactions 4. Able to evaluate various assets and liabilities 5. Able to prepare audit report
UCBIO20	PROJECT	<ol style="list-style-type: none"> 1. Identify Research Problem. 2. Able to identify sample and collect data. 3. Conduct research independently 4. Demonstrate the skill of working on SPSS 5. Carry out research in specialized areas like Bank and Insurance sector. Transmit their knowledge to the society.
UGBIA520/ UGBIA620	NON- MAJOR ELECTIVE - BANKING SYSTEM IN INDIA	<ol style="list-style-type: none"> 1. Understands the concepts of Banking operation. 2. Able to differentiate private and public sector banks. 3. Understands the functions of RBI. 4. Able to access digital banking. 5. Able to transfer money through digital payment.
USBIE520	SKILL BASED	<ol style="list-style-type: none"> 1. Understands set off and carry forward of losses.

	ELECTIVE - PRACTICAL ASPECTS OF INCOME TAX AND E- FILLING	<ol style="list-style-type: none"> 2. Able to Compute Total Income. 3. Able to identify E-filing from regular filing returns. 4. Able to file ITR online. 5. Understands the Concept of XBRL
UCBIP20	ANALYTICAL SKILLS FOR BANKING AND INSURANCE EXAMINATION	<ol style="list-style-type: none"> 1. Demonstrate the knowledge in verbal reasoning. 2. Demonstrates analytical skills in Mathematical operation 3. Able to show skills in non -verbal reasoning 4. Acquire updated knowledge in current affairs 5. Demonstrate the knowledge of Computer technology.
UCBIQ20	FINANCIAL MANAGEMENT	<ol style="list-style-type: none"> 1. Understands the role of financial manager. 2. Analyse the complexities associated with management of cost of funds in the capital structure. 3. Recognize the factors that determine optimum capital structure. 4. Compute leverage of a company 5. Identify and analyse various sources of capital.
UCBIR20	E –COMMERCE, E BANKING AND TALLY	<ol style="list-style-type: none"> 1. Logically observes and experience the activities of E – Commerce 2. Able to access various mobile applications and mobile payments 3. Able to make e payment 4. Able to transact through new technologies 5. Apply knowledge and work on tally software
UCBIS20	PRACTICAL TALLY	<ol style="list-style-type: none"> 1. Creates Trading, Profit and Loss account. 2. Prepares Balance sheet using Single and Multiple Ledger. 3. Calculates GST and prepares tax statement 4. Prepares Bank Reconciliation Statement. 5. Analyze and prepares stock summary.
UEBIE20	ELECTIVE-FINANCIAL SERVICES MANAGEMENT	<ol style="list-style-type: none"> 1. Understands the Concepts of merchant banking 2. Able to follow the procedures of leasing and factoring 3. Assess various methods of financing 4. Understand the functions of credit rating agencies 5. Create DEMAT account and access online stock trading
UEBIF20	ELECTIVE II B MARKETING	<ol style="list-style-type: none"> 1. Understands the concept of marketing and consumer behavior 2. Able to identify brand and build brand loyalty. 3. Understands different methods of pricing 4. Able to promote a product. 5. Able to buy and sell through online marketing.
USBIF620	SKILL BASED ELECTIVE - BANKING AND BUSINESS CORRESPONDENCE	<ol style="list-style-type: none"> 1. Able to communicate effectively. 2. Able to draft letters to Banks 3. Able to draft letter to an insurance company 4. Demonstrates better performance in interview 5. Create own resume and able to self -evaluate.
B.B.A- HOSPITAL ADMINISTRATION		
UCHAA20	FUNDAMENTALS OF MANAGEMENT	<ol style="list-style-type: none"> 1. Understand the management theories, functions and responsibilities of managers. 2. Formulate and design plans by suitably applying SWOT in

		<p>decision making.</p> <ol style="list-style-type: none"> 3. Relate and discuss the process of organising, delegating and staffing in an organisation. 4. Recognise the need of directing, coordinating and controlling in the work environment. 5. Classify and determine reporting and budgeting process.
UCHAB20	FOUNDATION IN HOSPITAL ADMINISTRATION	<ol style="list-style-type: none"> 1. Understand the functions of various healthcare systems and learn relevant medical terminology. 2. Understand, recognize the importance of communication skills and develop it effectively. 3. Understand and enhance analytical skills. 4. Understand, recognise the importance of computer skills and develop it. 5. Develop the personality skills of an individual.
UAMST20	ALLIED I: MEDICAL STATISTICS	<ol style="list-style-type: none"> 1. Solve basic mathematical problems using matrices 2. Use various differentiation techniques 3. Give graphical representation of statistical data 4. Understand the concepts related to statistics 5. Analyze problems related to statistical measures
USHAA120	SKILL BASED ELECTIVE I: LIFE SKILLS	<ol style="list-style-type: none"> 1. Understand and deliver Basic Life Support (BLS) in case of emergency. 2. Recognise the sources and effects of radiation and learn the principles of Radiation Protection and Safety. 3. Understand and demonstrate the various steps of hand hygiene. 4. Comprehend several occupational health hazards and its preventive measures. 5. Acquire knowledge on the Fire Safety and Disaster Management and practical exposure to handle fire extinguishers.
UCHAC20	HEALTH CARE ETHICS	<ol style="list-style-type: none"> 1. Understand and recognize the role of ethics in business. 2. Understand and recognize the social responsibilities of business entities towards staff, stakeholders and community. 3. Understand and interrelate fundamental aspects of medical ethics. 4. Recognize and infer various aspects of healthcare and research which may infringe on patient rights. 5. Distinguish various aspects of end and beginning of life ethical issues and ensure ethical compliance.
UCHAD20	MEDICAL TERMINOLOGY FOR ADMINISTRATION	<ol style="list-style-type: none"> 1. Understand and recognize the fundamentals of Anatomy and Physiology. 2. Comprehend various Musculoskeletal System of a human body. 3. Recognize and understand cardiovascular system, respiratory system, digestive system and excretory system. 4. Develop ability to read and understand medical documentation and medical literature. 5. Recognize and learn the meanings of Standard Medical

		Abbreviations.
UAORA20	ALLIED II: OPERATIONS RESEARCH	<ol style="list-style-type: none"> 1. Understand the basic operations research concepts and solve linear programming problems. 2. Analyze real-life situation using transportation models. 3. Assign jobs to different machines using assignment models. 4. Use knowledge of Network Analysis in Hospital Administration. 5. Acquire wide knowledge in Game Theory.
USHAB220	SKILL BASED ELECTIVE II: PRACTICAL: COMMUNICATION SKILLS IN ENGLISH	<ol style="list-style-type: none"> 1. Understand the elements, types, process and barriers in communication. 2. Develop the skill of communicating through drafting various types of letters for business and banking correspondence. 3. Improve the vocabulary for daily usage. 4. Be able to write discharge summary and consent form related to hospitals. Also prepare the students for group discussions and role plays. 5. Develop the skill to make students prepare PowerPoint presentations.
UCHAE20	HEALTH CARE LAWS	<ol style="list-style-type: none"> 1. Understand the principles and nature of forming Society, basics of constitution required for the hospital and applicability of the Companies Act. 2. Recognize and interrelate various Labor laws and its applicability to Hospitals. 3. Gain knowledge in the duties of medical practitioners and Laws relating to it and list the Acts and Rules that are connected with medical practice. 4. Understand the Medical Jurisprudence in India and have in depth knowledge about precautionary steps to avoid litigation. 5. Recognize the applicability of Laws on Hospital Administration and understand the obligations pertaining to the implementation of Laws applicable to hospitals.
UCHAF20	HOSPITAL OPERATIONS MANAGEMENT – I	<ol style="list-style-type: none"> 1. Understand the classifications of hospitals, roles of hospital administrators, essential hospital operations indicator and current trends in healthcare. 2. Recognize and interrelate functions and layout of OPD, inpatient services and different forms of ward. 3. Understand the role and tasks of a nurse and determine the nursing staff requirement in a hospital. 4. Gain knowledge in function of Hospital Infection Control Committee in the hospital and Understand the prevalence of infection and the role of Hospital Infection Control 5. Understand the functions of these clinical support services and able to categorize the same.
UCHAG20	ACCOUNTING FOR HOSPITAL ADMINISTRATORS-I	<ol style="list-style-type: none"> 1. Acquire conceptual knowledge of basics of accounting and understand the accounting concepts, principles and conventions.

		<ol style="list-style-type: none"> 2. Understand and apply the rule of accounting equation and the dual entry recording framework to a series of transactions that results in a balance sheet. 3. Apply the golden rules of accounting and able to record journal entries and prepare ledger accounts using double entry book keeping. 4. Be able to prepare various subsidiary books like sales book, purchases book, purchase returns book, sales returns book, bills receivable book, bills payable book and cash book. 5. Understand the purpose of balance sheet, prepare financial statements in accordance with appropriate standards and report the results of a firm.
UAHCE20	ALLIED III: HEALTHCARE ECONOMICS	<ol style="list-style-type: none"> 1. Gain Knowledge in basic concepts of economics including managerial economics, macro and microeconomics, types of economy and understand the size and relevance of health economics. 2. Develop skills to manage demand for health care and understand behavior of consumers in the health care sector. 3. Understand the concept fundamentals of hospital and physician services production including the concepts of economies of scale, and technology adoption decision. 4. Acquire the ability to evaluate health economics and understand the concept of healthcare market and health insurance. 5. Analyze the environmental influences on the health care sector and identify the impact of tobacco, alcohol, drugs and other communicable diseases on the economy.
UEHAA20	ELECTIVE I A: BUSINESS ENVIRONMENT	<ol style="list-style-type: none"> 1. Understand the concepts in business environment globally and in Indian context 2. Learn the concept of business cycle. 3. Understand social responsibility and social audit. 4. Acquire an overview about the Consumer Protection Act. 5. Understand the concepts of privatization and liberalization.
UEHAB20	ELECTIVE I B: LOGISTICS & SUPPLY CHAIN MANAGEMENT	<ol style="list-style-type: none"> 1. Understand and identify the stages and scope of logistics and supply chain management. 2. Develop the conceptual knowledge about the process of supply chain and its drivers. 3. Relate the various network decision options available. 4. Compare the pricing strategies adopted by various firms. 5. Identify and relate the stakeholders and their impact on supply chain in healthcare sector.
USHAC320	SKILL BASED ELECTIVE III: WELLNESS MANAGEMENT	<ol style="list-style-type: none"> 1. Enhance personality management and emotional intelligence with SWOT analysis. 2. Develop skills to identify stressors to manage stress. 3. Develop skills to give priority to urgent and important work to save time. 4. Improve skills to manage conflict, crisis, events and

		<p>responsible use of technology.</p> <p>5. Cultivate the habit of taking nutritious diet and exercise for physical fitness.</p>
UCHAH20	HUMAN RESOURCE MANAGEMENT AND DEVELOPMENT	<ol style="list-style-type: none"> 1. Gain knowledge in basic concepts of Human Resource Management and enable in drafting an HR planning model. 2. Develop the competency to recruit select, train employees and appraise the performance of the employees. 3. Understand the nature of a job and role of employees using job analysis and job design to attain Quality Work Life and participate in the decision making process. 4. Understand the various employee benefits safety, health and welfare measures adopted in an organization to acquire the ability to handle employee issues and learn the new trends in HRM 5. Inculcate values and ethics in Human Resource Management.
UCHAI20	HOSPITAL OPERATIONS MANAGEMENT – II	<ol style="list-style-type: none"> 1. Understand the factors responsible for good public relations and discuss on common problems of public relations in the hospitals. 2. Recognize and interrelate the structure and the overall functioning of materials department. 3. Familiarize with the Billing system and payment systems in a hospital and understand the functions of MRD. 4. Perceive the functions of engineering service department and its service types. 5. Categorize various support services in a hospital and understand its functions.
UCHAJ20	INTRODUCTION TO RESEARCH METHODOLOGY	<ol style="list-style-type: none"> 1. Understand the various types of research and apply it in real life study. 2. Distinguish the types of research design, understand the concept of Hypothesis and formulate the same. 3. Comprehend the various types of sampling techniques, scaling techniques and measurements. 4. Distinguish various types of data collection methods and enable the students to draft questionnaire incorporating the scaling techniques. 5. Enable the students to analyze data using statistical packages and to follow a systematic process to write a research report.
UCHAK20	ACCOUNTING FOR HOSPITAL ADMINISTRATORS – II	<ol style="list-style-type: none"> 1. Gain knowledge in basic concepts, tools and techniques of management accounting. 2. Be able to analyze the annual reports of an organisation and interpret the required financial information by calculating various ratios. 3. Classify the costs to better understand the business expenses and prepare cost sheet by breaking cost based on its types. 4. Prepare funds flow statement, cash flow statement and

		<p>evaluate the fund movements and cash position of an organization.</p> <p>5. Apply the cost, volume and profit concepts, prepare various budgets like cash budget, production budget, sales budget that aids in decision making.</p>
UAHSM20	ALLIED IV: HEALTH SERVICES MARKETING	<ol style="list-style-type: none"> 1. Understand the similarities and differences in service based and physical product based marketing activities. 2. Develop the competency to plan, create, price and distribute new service. 3. Understand the various strategies used for competition analysis, promotion and branding the service to avoid service failure. 4. Acquire the ability to manage and improve service quality and customer relationships. 5. Understand and identify the role of employee and consumer in service delivery process to manage critical issues in demand and capacity of service.
USHAD420	SKILL BASED ELECTIVE IV: PRACTICAL: COMMUNICATION SKILLS IN HINDI	<ol style="list-style-type: none"> 1. Learn the basic words and phrases. 2. Develop the skill of communicating in a hospital scenario through practice . 3. Learn Hindi numerals 4. Be able to direct and speak politely and with due respect. 5. Develop the skill to use appropriate terms and statements.
UCHAL20	QUALITY IN HEALTHCARE	<ol style="list-style-type: none"> 1. Gain Knowledge in the history of quality and quality principles and understand the seven tools of quality. 2. Analyze the need for healthcare quality management in hospitals and identify the variation in medical practice and implication for quality. 3. Recognize, categorize and evaluate clinical and operational issues and ways to address it for efficient patient safety. 4. Understand and differentiate types of audit and gain knowledge in various accreditations and its benefits. 5. Analyze, interpret and understand the role of quality team and quality steering committee in a hospital.
UCHAM20	ORGANIZATIONAL BEHAVIOUR	<ol style="list-style-type: none"> 1. Understand the basic concepts, theories and models of Organizational behavior. 2. Develop the perceptual skills and its application in the decision making process and gain knowledge in the factors affecting learning and effective learning process. 3. Understand the group dynamics and acquire skills required for working in groups. 4. Understand the various determinants of Stress and coping strategies to develop skills to resolve organizational conflicts. 5. Analyze and compare different theories used to explain individual behavior.
UCHAN20	GLOBAL HEALTHCARE SYSTEM	<ol style="list-style-type: none"> 1. Realize the challenges faced by hospitals which have implemented medical tourism in their system. 2. Recognize and distinguish various aspects of healthcare delivery of NHS UK from Indian healthcare system and

		<p>compare the governance, finance and technology aspects of NHS UK with other countries.</p> <ol style="list-style-type: none"> 3. Recognize and distinguish various aspects of healthcare delivery of Canadian healthcare from Indian healthcare system and compare the governance, finance and technology aspects of Canadian healthcare with other countries. 4. Recognize and distinguish various aspects of healthcare delivery of Japanese healthcare from Indian healthcare system and compare the governance, finance and technology aspects of Japanese healthcare with other countries. 5. Recognize and distinguish various aspects of healthcare delivery of Malaysian healthcare from Indian healthcare system and compare the governance, finance and technology aspects of Malaysian healthcare with other countries.
UCHAP20	PROJECT	<ol style="list-style-type: none"> 1. Identify the existing problem in the work environment. 2. Devise a suitable plan for solving the problem. 3. Understand and interrelate fundamental aspects based on the available literatures. 4. Analyse and interpret data for decision making. 5. Document and provide feasible solutions which will promote the organisation growth and the student's career growth.
UEHAC20	ELECTIVE II A: HEALTHCARE INSURANCE	<ol style="list-style-type: none"> 1. Acquire knowledge on basic terminologies of insurance and describe the role of health insurance for individuals. 2. Understand the various types of health insurance policies offered to individuals in India and the rules that govern and protect policy holders. 3. Familiarize with various health insurance policies offered by Government for poorer sections of the society. 4. Understand the basic tools and principles of underwriting and the rules governing the same. 5. Comprehend the claims management in insurance and understand the role of Third Party Administrators (TPA).
UEHAD20	ELECTIVE II B: E BANKING	<ol style="list-style-type: none"> 1. Acquire conceptual knowledge of E-banking, describe its features and compare it with traditional banking. 2. Understand the need for computerization in banks and describe the advantages and disadvantages of online banking. 3. Introduce the need for security and apply those to overcome cybercrimes. 4. Familiarize the crypto system followed in E-banking. 5. Understand the E-Security solutions and the various software used as security in E-banking.
UGHAA521	NON MAJOR ELECTIVE I: MANAGEMENT INFORMATION	<ol style="list-style-type: none"> 1. Identify strategic uses of information systems in management. 2. Evaluate operational and tactical information systems in functional areas of business including marketing, finance

	SYSTEMS	<p>and human resource.</p> <ol style="list-style-type: none"> 3. Enhance skills in planning, analyzing and designing information systems. 4. Realize the roles and responsibility of information system professionals to control issues related to information theft. 5. Gain Knowledge in various Hospital Management software used for prescribing medicines, laboratory reports and logistics and inventory management.
USHAE520	SKILL BASED ELECTIVE V: PRACTICAL: ACCOUNTING PACKAGES	<ol style="list-style-type: none"> 1. Gain knowledge in various accounting packages and the basics of Tally ERP 9.0 2. Be trained in creating company, enter accounting vouchers and to print profit and loss and Balance Sheet. 3. Prepare inventory and stock items for an organisation and print the stock summary report. 4. Understand how to create and maintain cost categories, cost centres of a product for easy processing of sales and purchase inventories. 5. Analyse the financial statements using ratio analysis and interpreting the results thereof.
UCHAP20	PUBLIC HEALTH AND COMMUNITY	<ol style="list-style-type: none"> 1. Understand the history of medicine, dawn of scientific medicine and healthcare revolution. 2. Analyze the principles of health management and planning cycle and various health delivery systems. 3. Understand the uses of Epidemiology and concepts of screening for disease. 4. Realize and differentiate communicable and non-communicable diseases and conceptualize various National Health Planning in India and its impact. 5. Understand the importance of nutrition and health, environment and health in health status.
UCHAQ20	MATERIALS AND EQUIPMENT MANAGEMENT	<ol style="list-style-type: none"> 1. Understand the need and importance of materials management in the hospital. 2. Develop and manage a purchase system for the hospital. 3. Plan and implement equipment purchase and develop audit and maintenance systems for hospital equipment. 4. Understand, interrelate various aspects of receiving and inspection and stores in materials management. 5. Recognize the importance of value and inventory management in materials management and select the appropriate methods for sustainable economic functioning.
UCHAR20	INTERNSHIP (2 MONTHS)	<ol style="list-style-type: none"> 1. Identify work and its function in the economy 2. Develop communication, interpersonal and other critical skills for employability. 3. Realize the importance of professionalism in the workplace. 4. Gain ethical experience in organizational culture. 5. Ability to identify the diverse needs and global issues for sustainable growth.
UGHAB620	NON MAJOR	<ol style="list-style-type: none"> 1. Gain knowledge in basics and advanced Microsoft Excel.

	ELECTIVE II: PRACTICALS: ADVANCED EXCEL	<ol style="list-style-type: none"> 2. Be trained in creating worksheet, enter data set and can perform all arithmetic operations using formulas. 3. Prepare and can calculate the pay roll of employees in an organization. 4. Understand how to create and extract pivot table from the data set. 5. Analyze the data sets using various graphic tools and functions.
USHAF620	SKILL BASED ELECTIVE VI : SOCIAL ENTREPRENEURSHIP	<ol style="list-style-type: none"> 1. Understand the theory of social entrepreneurship, and distinguish social entrepreneurship from other entrepreneurial and social work. 2. Be able to identify the different forms of social enterprise including nonprofit proprietorship, trust and section 25 companies. 3. Identify an unsatisfactory social equilibrium, and actively pursue a solution to create a more just, fair, and sustainable model. 4. Learn the opportunities of social entrepreneurship by understanding the concept of startups, incubation center, venture capital and CSR fund. 5. Be able to develop social entrepreneurship by understanding the success story of various social entrepreneurs like Aravind Eye Hospital.
ALLIED BOTANY		
UBBTA20/ UABTA20	OPTIONAL ALLIED BOTANY-I/ALLIED BOTANY-I	<ol style="list-style-type: none"> 6. Outline the general characters, life cycle and economic importance of Algae and Fungi. 7. Distinguish the general characters of Bacteria and Virus 8. Understand the general characters and life cycle of Bryophyta, Pteridophyta and Gymnosperms. 9. Upgrade the knowledge in Cell biology and Genetics 10. Identify the pathogens and the applications of Plants in agriculture.
UBBTB20/ UABTB20	OPTIONAL ALLIED BOTANY-II /ALLIED BOTANY-	<ol style="list-style-type: none"> 6. Classify Angiosperms and identify the family with the characters . 7. Identify and analyse the histology of Plants. 8. Gain knowledge on Embryology of Plants. 9. Understand the key process of Plant Physiology. 10. Integrate the knowledge of Horticulture in growing Plants.
UBBTC20/ UABTC20	OPTIONAL ALLIED BOTANY PRACTICAL /ALLIED BOTANY PRACTICAL	<ol style="list-style-type: none"> 5. Identify and describe the plants in technical terms belonging to the families prescribed in the theory syllabus. 6. Distinguish and analyse the microscopic and macroscopic study of Cryptogams. 7. Examine the internal features of Dicot and Monocot-root, stem and leaf. 8. Interpret the Physiology experiments. 9. Illustrate the horticultural practices- cutting, layering and grafting.
USBTA120/	SKILL BASED	<ol style="list-style-type: none"> 1. Acquire knowledge in the basics of medicinal plants.

USBTA220	ELECTIVE HERBAL THERAPY AND COSMETOLOGY	<ol style="list-style-type: none"> 2. Get an insight into the therapeutic values of Indian system of medicine. 3. Identify the herbs and formulate herbal medicines for skin care. 4. Identify the herbs and formulate herbal medicines for hair care. 5. Evaluate the importance of herbs used in herbal cosmetics.
USBTB121/ USBTB221	SKILL BASED ELECTIVE HORTICULTURE	<ol style="list-style-type: none"> 1. Apply the principles of the cultivation of economically important horticultural crops. 2. Analyze the different methods of plant propagation in horticultural crops. 3. Evaluate the importance of floriculture in indoor gardening. 4. Plan and execute the different types of garden layouts and design. 5. Develop the skill for vegetable and fruit processing, its preservation and preparation of value added products.
UGBTA520/ UGBTA620	NON-MAJOR ELECTIVE EDIBLE MUSHROOM CULTIVATION	<ol style="list-style-type: none"> 1. Plan the cultivation of mushroom for self employment activity 2. Identify the medicinal and nutritional value of mushroom 3. Evaluate the cultivation of Oyster mushroom 4. Develop the technical skills for both cultivation and preservation of mushroom 5. Establish a commercial mushroom production Unit.
ALLIED ECONOMICS		
UCCOB20	BUSINESS ECONOMICS I	<ol style="list-style-type: none"> 1. To understand the concepts of demand, nature and cost of production and its relationship to business operations. 2. To apply demand analysis to relevant economic issues 3. To analyse the causes and consequences of different market conditions 4. To integrate the concept of price and output decisions of firms under various market structure. 5. To apply marginal analysis to the firm under different market conditions.
UCCOD20	BUSINESS ECONOMICS II	<ol style="list-style-type: none"> 1. To explain the concept of macro economics 2. Understands the circular flow of income and expenditure. 3. Analyse the various pricing policies and its implementation in different business situations. 4. Analysis the causes and effects of changes in real GNP, NNP, etc., 5. To integrate the role of fiscal and monetary policies in regulating economy.
UAIED20	INDIAN ECONOMIC DEVELOPMENT POLICY	<ol style="list-style-type: none"> 1. Students can be aware about the process of national development and requirement for it. 2. Students will be able to better appreciate and understand the role and process of planning and how monetary and fiscal policies affect the economy. 3. Students clearly understand the role of Agriculture and Industrialization in the development of Indian Economy.

		<ol style="list-style-type: none"> 4. Against this background, students will clearly understand two major issues – food security and climate change – that has come up with changes in economic regimes at the domestic and global level. 5. Students will be able to appreciate the relative importance of industrial sector, service sector and the unorganised sector in the Indian economy.
UAIATA20	INTERNATIONAL TRADE	<ol style="list-style-type: none"> 1. Explain the concepts in international business with respect to foreign trade/international business. 2. Apply the current business phenomenon and to evaluate the global business environment in terms of economic, social, and legal aspects. 3. Analyse the principle of international business and strategies adopted by firms to expand globally. 4. Integrate concept in international business concepts with functioning of global trade. 5. Cognise about International Organizations such as IBRD, IMF and WTO.
UGECA520	NON- MAJOR ELECTIVE WOMEN ENTREPRENEURSHIP	<ol style="list-style-type: none"> 1. Identify the functions and challenges of an women entrepreneurship. 2. Explain the various theories of women entrepreneurship. 3. Design and develop business plans and projects. 4. Illustrate the sources of financing a business. 5. Utilize management techniques and design a project.
USECA121	SKILL BASED ELECTIVE STATISTICS FOR ECONOMICS	
GENERAL ENGLISH		
UENGA20	GENERAL ENGLISH: PAPER – I	<ol style="list-style-type: none"> 1. Recognize the elements of English language at the levels of vocabulary, spelling, grammar and pronunciation 2. Rephrase ideas into sentences in both speech and writing with accuracy, clarity and fluency 3. Use the LSRW (listening, speaking, reading & writing) skills in English language with ease in academic and real-life situations. 4. Explain one’s ideas and opinions on any given subject, clearly and effectively 5. Discern (figure out) effective ways of communication with etiquette
UENGB20	GENERAL ENGLISH: PAPER –II	<ol style="list-style-type: none"> 1. Relate with the time-tested values of Indian culture and assimilate communicative skills through the reading of texts by Indian English writers 2. Outline the values and ideas from the prescribed texts in self-made sentences with accuracy, clarity and fluency 3. Use the LSRW (listening, speaking, reading & writing) skills in English language with ease in academic and real-life situations. 4. Explain one’s ideas and opinions on any given subject,

		clearly and effectively 5. Figure out effective ways to make a point and describe one's standpoint
UENGC20	GENERAL ENGLISH: PAPER-III	1. Evolve newer ways to approach language-learning goals. 2. Enable students to be aware of the contemporary social issues of national and global importance. 3. Improve speaking ability both in terms of fluency and comprehensibility. 4. Paraphrase the online sources effectively and accurately. 5. Develop comprehensive abilities as to read, write and speak.
UENGD20	GENERAL ENGLISH- PAPER – IV	1. Relate with real life situations by reading the literary text from the past. 2. Respect and protect the differences among nations and practice positive social values. 3. Instill the ability to analyze texts critically and practice writing through assignments. 4. Develop knowledge about the system of Governance and its regulations. 5. Create a sense of belonging towards the community and nation.
FOUNDATION TAMIL		
ULTAA20	GENERAL TAMIL – I	1. நவீன தமிழ் இலக்கியத்தின் வாயிலாக மனித உரிமைச் சார்ந்த கருத்துக்களை மதிப்பிடுதல். 2. வாழ்க்கை வரலாற்றின் வழி சான்றோர்களின் வாழ்வியல் விழுமியங்களை ஊக்குவித்தல். 3. அயலகத் தமிழர் கவிதைகளைப் பகுத்தாராய்தல். 4. தமிழ்மொழியைப் பிழையின்றி பேசவும், எழுதவும் கற்பித்தல். 5. பொது அறிவுத் திறனை வளர்த்து வேலை வாய்ப்பினை பெற வழி வகுத்தல்.
ULTAB20	GENERAL TAMIL-II	1. பக்தி இலக்கியங்கள் வாயிலாக மதநல்லிணக்க உணர்வை வளர்த்தல். 2. சமய நல்லிணக்க பண்பை வளர்த்தல். 3. தலவரலாறுகள் மூலம் தமிழகக் கோவில்கள், சிற்பங்கள், கலைகள், கல்வெட்டுகள் போன்றவற்றின் சிறப்பை உணர்ந்து பண்பாட்டைப் பேணச்செய்தல். 4. சிறுகதைகளின் வழி மனிதநேய மாண்பை பின்பற்றி வாழ ஊக்குவித்தல் 5. மாணவர்களிடையே பொதுஅறிவு சிந்தனைகளை வலுப்படுத்தல்.
ULTAC20	GENERAL TAMIL– III	1. சங்க இலக்கியங்களை அறிமுகப்படுத்தி, அதன் விழுமியங்களில் வாழ ஊக்குவித்தல். 2. பழந்தமிழரின் மரபை அறியச்செய்தல்.

		<p>3. சங்க இலக்கியங்கள் வழி தலைமைப்பண்பை வளர்த்தல்.</p> <p>4. தன் வரலாற்று இலக்கியங்கள் வாயிலாக நம்பிக்கை பெற ஊக்குவித்தல்.</p> <p>5. இலக்கணப் பிழையின்றி எழுதக் கற்பித்தல்.</p>
ULTAD20	GENERAL TAMIL-IV	<p>1. கேட்டல், எழுதுதல், பேசுதல், வாசித்தல் (LSWR) முதலிய மொழித்திறன்களை வளர்த்தல்</p> <p>2. படைப்பாக்க இலக்கியங்களை உருவாக்க உதவுதல்</p> <p>3. வேலைவாய்ப்புக் குறித்த வாய்ப்புகளை அறிமுகப்படுத்துதல்</p> <p>4. இலக்கிய வரலாறு வழி தமிழர்களின் வாழ்வியலை அடையாளப் படுத்துதல்</p> <p>5. நவீன தகவல் தொடர்பு பயன்பாட்டை ஊக்குவித்தல்</p>
UGTAA521	NON MAJOR ELECTIVE ADIPADAI TAMIL	<p>1. தமிழ் எழுத்துகளின் அடிப்படைகளை மாணவிகளுக்கு அறிமுகப்படுத்தல்.</p> <p>2. மெய்யெழுத்துகளையும் உயிர்மெய் எழுத்துகளையும் மாணவிகளுக்கு விளக்குதல்.</p> <p>3. எண்களை மாணவிகளுக்கு அறிவுறுத்தல்.</p> <p>4. மரம்,செடி,கொடி, காய் கனிகளின் பெயர்களை கற்பித்தல்.</p> <p>5. வார, மாத பெயர்கள், முக்கிய விழாக்கள், புலவர்கள், நூல்களின் பெயர்களை எடுத்துரைத்தல்.</p>
UGTAA621	NON MAJOR ELECTIVE ADIPADAI TAMIL	<p>1. ஐந்தாம் பருவ பாடத்திட்டத்தில் தமிழ் மொழி குறித்த அடிப்படைகளை எழுத்தால் அறிந்துக் கொண்ட மாணவியர்க்கு, சொற்களை அறியப் பயிற்றுவித்தல்.</p> <p>2. சொற்களைக் கொண்டு தொடரமைத்து, எழுதக் கற்பித்தல். பயிற்றுவித்தலோடு மாணவிகள் தாங்களே சுயமாக எழுத, பேச ஊக்கப்படுத்துதல்.</p> <p>3. கவிதை, சிறுகதைகளை சொல்லாகவும் தொடராகவும் படித்தறியச் செய்தல்.</p> <p>4. வெவ்வேறு கவிதைகள், சிறுகதைகள், செய்தித்தாள்கள், புத்தகங்களைக் கொடுத்து வாசிக்கப் பழகுதல்.</p> <p>5. தமிழ் மொழியை பேசப் பழகுதல் புரிந்துக்கொள்ளுதல்</p>
UGATA521	NON MAJOR ELECTIVE ADVANCED TAMIL	<p>1. மொழித்திறனை எடுத்துரைத்தல்</p> <p>2. சொற்களை உருவாக்கக் கற்றுத்தரல்</p> <p>3. இலக்கிய வாசிப்புப் பயிற்சிகளை ஊக்குவித்தல்</p>

		<p>4. மொழியை எழுதவும் பேசவும் பயிற்சி வழங்குதல்</p> <p>5. வாசிப்பு பயிற்சி வழங்குதல்</p>
UGATA621	NON MAJOR ELECTIVE ADVANCED TAMIL	<p>1. இலக்கியவகைச் சொற்களை கையாளும் திறன் பெறுதல்</p> <p>2. ஆன்மிக அறநெறி சிந்தனைகளை மேம்படுத்துதல்</p> <p>3. தமிழ் இலக்கண வகைகளை அறிமுகம் செய்தல்</p> <p>4. தமிழ் இலக்கிய வகைகளை அறிமுகம் படுத்துதல்</p> <p>5. வேலைவாய்ப்பு பயிற்சி வழங்குதல்</p>
FOUNDATION HINDI		
ULHNA20	HINDI PAPER- I (PROSE, APPLIED GRAMMAR AND FUNCTIONAL HINDI)	<p>1. Explain the origin and development of Hindi Prose and appreciate Hindi Language.</p> <p>2. Apply the rules of Hindi grammar and communicate effectively.</p> <p>3. Acquire comprehensive skills related to letter writing and use them in their personal and professional life proficiently.</p> <p>4. Use business and administrative terminology accurately.</p> <p>5. Translate English passages to Hindi efficiently and equip with a job - oriented skill.</p>
ULHNB20	HINDI PAPER-II (POETRY, HINDI E-LEARNING AND FUNCTIONAL HINDI)	<p>1. Explain the cultural traditions, moral values and social issues of life in a better way through the study of Poetry.</p> <p>2. Communicate effectively in Hindi in their day to day life.</p> <p>3. Acquire the skills of a good Translator</p> <p>4. Utilize Hindi E-resources.</p> <p>5. Acquire and apply critical, analytical and creative thinking</p>
ULHNC20	HINDI PAPER- III (ANCIENT AND MEDIEVAL POETRY, NOVEL AND APPLIED GRAMMAR)	<p>1. Evaluate different forms of literature.</p> <p>2. Cultivate the habit of critical and creative thinking.</p> <p>3. Communicate effectively in Hindi in day to day life.</p> <p>4. Explain the social background, the trends, the famous poets and their works during the first three periods of the history of Hindi literature.</p> <p>5. Acquire positive social values through the study of novels.</p>
ULHND20	HINDI PAPER- IV (ONE ACT PLAY, SHORT STORY, HISTORY OF HINDI LITERATURE (MODERN PERIOD) AND GENERAL ESSAY)	<p>1. Explain the origin and development of modern Hindi literature and the life history and works of the famous representative writers.</p> <p>2. Gain a deeper understanding of different societies, social issues and human experiences through the study of modern Hindi literature.</p> <p>3. Enhance the creative writing skills.</p> <p>4. Communicate effectively in Hindi in their day to day life.</p> <p>5. Develop the skills to interpret and critically analyze the themes and messages in the selected plays and stories.</p>
FOUNDATION FRENCH		
ULFRA20	FRENCH PAPER –I	<p>1. Express self and participate in conversations on familiar topics</p> <p>2. Communicate in contexts relevant to oneself, others, work</p>

		<p>place and place of study</p> <ol style="list-style-type: none"> 3. Recognize and use culturally appropriate vocabulary, expressions and gestures when participating in everyday interactions 4. Demonstrate knowledge of the grammatical structures of French 5. Construct simple texts on familiar topics like family, city and personal interests
ULFRB20	FRENCH PAPER –II	<ol style="list-style-type: none"> 1. Express oneself and provide personal details using simple connectors 2. Comprehend and apply vocabulary related to family, transport, daily activities 3. Communicate orally and in written form in limited social situations 4. Demonstrate knowledge of cultural differences 5. Apply basic grammatical structures to write simple texts
ULFRC20	FRENCH PAPER –III	<ol style="list-style-type: none"> 1. Express a wish and talk about vacations 2. Comprehend and apply the prepositions of places and talk about transport 3. Communicate in a polite manner and ask appropriate questions 4. Demonstrate the ability to speak about favourite animals, friends, family 5. Apply the futur tense to talk about projects
ULFRD20	FRENCH PAPER –IV	<ol style="list-style-type: none"> 1. Present our house and describe our ideal room 2. Narrate your passions and write a poem 3. Ability to compose a menu and write a original recipe in French 4. Describe the physical traits of a person 5. Understand money matters and how to spend pocket money
FOUNDATION URUDU		
ULURA20	URDU PAPER - I PROSE, GRAMMAR & LETTER WRITING	<ol style="list-style-type: none"> 1. Students will acquire the required academic efficiency 2. They will be learning the techniques of exemplary writing. 3. They will develop ability to foster fast reading of Texts.
ULURB20	URDU PAPER - II MANZOOMATH, GHAZALIATH & TRANSLATION	<ol style="list-style-type: none"> 1. Students will be able to expand the frontiers of their creative intellect. 2. Their fascination for Literature will get doubled or tripled. 3. The translation skills will help them professionally.
ULURC20	URDU PAPER - III AFSANA, MAZMOON NAWESI & MUKALAMA NIGARI	<ol style="list-style-type: none"> 1. Students will care more for Non-Detailed Texts on par with Detailed Texts. 2. They will sharpen necessary skills to draft essays on varied themes. 3. They will succeed in their official routine with their ability to translate.
ULURD20	URDU PAPER - IV DRAMA, RUBAYIATH &	<ol style="list-style-type: none"> 1. Students will learn to excel in the art of reading Plays. 2. They will hoan their faculty of imagination. 3. They will emerge as exponents of good conversation.

	HISTORY OF URDU LITERATURE	
ENVIRONMENTAL STUDIES		
UNEVS20	ENVIRONMENTAL STUDIES	<ol style="list-style-type: none"> 1. Gain knowledge on multidisciplinary nature of environmental studies 2. Understand the Ecosystem, its structure and function 3. Understand the conservation of biodiversity 4. Gain knowledge on Environmental pollution, causes and its effects 5. Apply the laws in prevention of environment.
CHRISTIAN DOCTRINE		
UVEDA22	CHRISTIAN DOCTRINE	<ol style="list-style-type: none"> 1. Able to make the students value all forms of liturgy as a means to grow in their spiritual life. 2. Active participation through the signs and symbols present in the liturgy 3. Able to perceive the significance of the Sacraments received at various moments of life 4. Imbibe the knowledge about the celebration of solemnities of Our Lord's feasts, Marian feasts and feast of the apostles and saints occurring each liturgical year.
UVEDA22	CHRISTIAN DOCTRINE	<ol style="list-style-type: none"> 1. Able to make the students value the Catholic Faith received at Baptism and to deepen it. 2. Knowing the different Creeds and profess them meaningfully acknowledging their faith in the Triune God and the teachings of the Catholic Church. 3. Able to perceive the significance of the role of the Holy Spirit, the who sanctifies us, guides us and lead us Sacraments received at various moments of life 4. Imbibe the knowledge about the Ten Commandments with its implications and demands that enable to lead a life worthy of our Christian Call.
UVEDA22	CHRISTIAN DOCTRINE	<ol style="list-style-type: none"> 1. Able to make the students understand the nature of the Christian marriage as Sacrament 2. Know the essential elements of Christian marriage according to the teachings of the Catholic Church and the challenges of the married life 3. Able to perceive the sacredness of sexuality in marriage and get to know about the natural family planning. 4. Imbibe the knowledge about the the canonical and pastoral implications of marriage and annulment procedures.
VALUE EDUCATION		
UVEDA22	VALUE EDUCATION	<ol style="list-style-type: none"> 1. To develop good manners and learn to respect others. 2. To improve self-esteem and to set goals. 3. To enhance their emotional intelligence and to know about their importance. 4. To identify true friendship and differentiate between love and infatuation. 5. To acquire knowledge on counseling.
UVEDA22	VALUE EDUCATION	<ol style="list-style-type: none"> 1. Understand the reasons of conflict and how to respond to

		<p>conflicts.</p> <ol style="list-style-type: none"> 2. Acquire the knowledge of Media and its safe usage. 3. Develop the ability to handle stress in various situations. 4. Understand the importance of managing time for a successful career. 5. Develop various leadership skills to work together and achieve goals. 6. Gaining knowledge about social responsibility and to fulfill the civic duties to benefit the society. 7. Analyse the environmental influences on our day to day living and to care for the environment.
UVEDA22	VALUE EDUCATION	<ol style="list-style-type: none"> 1. To get a clear idea about sexuality 2. To understand about the importance of marriage and family life. 3. To become conscious about their health and to practice healthy habits. 4. To be aware about the rights and responsibilities of women. 5. To know the beauty of happiness and to taste the love of God and practice inter- religious harmony.

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