M.COM

PROGRAMME EDUCATIONAL OBJECTIVIES (PEO)	
PEO-1:	Become well versed and competent in the core concepts of the Programme.
PEO-2:	Be recognized for quantitative, qualitative, cognitive and analytical skills to identify, analyze, design and create business opportunities in a dynamic environment on the Global map.
PEO-3:	Become successful entrepreneurs and finance professionals in the field of Banking, Insurance, Manufacturing, Transport, Telecom, Service, Hospitality, IT and to pursue career in teaching and for advanced studies.
PEO-4:	Contribute to the creation, transmission and application of knowledge in the field of Commerce and other related fields adapting to a rapidly changing environment through lifelong learning.
PEO-5:	Become with professional integrity and humanitarian values to fulfill the societal needs at regional, state, national and global levels

PROGRAMME OUTCOMES (POs)	
PO 1:	Acquire in-depth knowledge of Commerce discipline, including wider and global perspectives, with an ability to discriminate, evaluate, analyze and synthesize existing and new knowledge, and integration of the same for enhancement of knowledge. **(Academic result & International / global reach)**
PO 2:	Analyze complex business problems critically; apply independent judgment for synthesizing information to make intellectual and/or creative advances for conducting research in a wider theoretical, practical and policy context. **(Research and Innovation)**
PO 3:	Think laterally and originally, conceptualize and solve Business problems, evaluate a wide range of potential solutions for those problems and arrive at feasible, optimal solutions after considering public health and safety, cultural, societal and environmental factors in the core areas of expertise at the national and

	international levels. **(International / global reach)**
PO 4:	Extract information pertinent to unfamiliar industry issues through literature survey and experiments, apply appropriate research methodologies, techniques and tools, design, conduct survey, analyze and interpret data, demonstrate higher order skill and view things in a broader perspective, submit a report about the study in commerce. **(Practical managerial analytical skills & Industry interaction)**
PO 5	**:** Demonstrate ability to understand commerce in multifunctional areas like Banking and Finance, Auditing and taxation, Marketing & Entrepreneurship. Also they will be able to demonstrate ability to understand and derive meaningful inferences about organizational performance. **(Functional Specialization)**

PROGRAMME SPECIFIC OUTCOMES (PSOs)	
PSO 1:	Display knowledge and understanding of group dynamics, recognise opportunities and contribute positively to collaborative-multidisciplinary management research, demonstrate a capacity for self-management and teamwork, decision-making based on open-mindedness, themselves as well as others. **(Team Work)**
PSO 2:	Demonstrate knowledge and understanding of commerce principles and apply the same to one's own work, as a member and leader in a team, manage projects in the work environment efficiently in respective disciplines and multidisciplinary environments after considering the economical and financial factors. **(Industry interaction)**
PSO3:	Communicate with society at large, regarding complex managerial activities confidently and effectively, such as, being able to comprehend and write effective reports and design
PSO4:	Documentation by adhering to appropriate standards, make effective presentations, and give and receive clear instructions. Also they will demonstrate an ability to communicate effectively, both in writing and orally **(Speaking / Writing skills)**.
PSO5:	Recognize the need for, and have the preparation and ability to engage in life-long learning independently, with a high level of enthusiasm and commitment to improve knowledge and competence continuously. **(Continuing education awareness)**

PSO6:	Display commitment towards professional and intellectual integrity, professional code of conduct, ethics of research and scholarship, consideration of the impact of research outcomes on professional practices and an understanding of responsibility to contribute to the community for sustainable development of society. **(Values, ethics, professional integrity and contribution to society)**
PSO 7:	Observe and examine critically the outcomes of one's actions and make corrective measures subsequently, and learn from mistakes without depending on external feedback. **(Independent and Reflective Learning)**
PSO 8:	Identify a timely opportunity and using business innovation to pursue that opportunity to create value and wealth for the betterment of the individual and society at large. **(Successful career, immediate employment & entrepreneurship)**

M.Com – I,II,III & IV Semesters

Code	Course Name	Course Outcomes
M.Com – I Semester		
PCOT12	**International Trade And Practices**	Describe and interpret core functional areas of International Trade and Practices and the assumptions and structure of standard models of international trade theory and policy **(k6)** **CO1.**Conduct an environmental scan to evaluate the impact of world issues on an organization's international business opportunities. Apply the current business phenomenon and to evaluate the global business environment in terms of economic, social and legal aspects **(k5)** **CO2.**Identify major recent developments in the world trading system, and be able to critically analyse key issues raised both by the current round of WTO negotiations and by the spread of regional trading arrangements. **(k4)** **CO3**.Conduct, evaluate and present market research to support an organization's international business decision-making. Create evidence-based solutions to business problems or opportunities. **(k6)** **CO4**.Demonstrate and interpret how institutions and policy affect international trade. **(k3)**
PCOT13	**Advanced Financial Management**	Explains the role of financial management in business firms and the essentials of corporate finance. They are able to relate the concept and mechanics of the time value of money, capital budgeting techniques, and the theory of capital structure to assess a firm's leverage and the cost of capital. **(k1, k6)** **CO1.**Critically evaluate the financial objectives of various types of organizations' and the requirements of stakeholders **(k6)**

		CO2. Explain alternative sources of finance and investment opportunities and their suitability in particular circumstances **(k2)** **CO3.**Analyse the complexities associated with management of cost of funds in the capital Structure **(k4)** **CO4** Assess the factors affecting investment decisions and opportunities presented to an organisation. Select and apply techniques in managing working capital, analyse a company's performance and make appropriate recommendations**. (k6)**
PCOP11	**Computerized Accounting with Tally**	Identify the key components of Tally (Students are familiarized with the statutory features of Tally like VAT, CST, TCS, TDS, FBT, and Goods and Service Tax. Students are also familiarized with the Point of Sale and Payroll features of Tally.) **(K1)** **CO1.**Process and record the business transactions and manage the accounts information **(K3)** **CO2.**Calculate the amount of tax that needs to be paid at the end of a particular accounting period **(K3)** **CO-**.Student will do by their own create company, enter accounting voucher entries including advance voucher entries, do reconcile bank statement, do accrual adjustments, and also print financial statements, etc. in Tally ERP.9 software **(k5)** **CO4.**To be employed as Tally data entry operator as an accountant and as a Chief Financial Officer (CFO) in companies. **(k3)**
PCOE11	**Managerial Economics**	Recognize applications of managerial economics.**(k1)** **CO1.**Explains the relationships between short-run and long-run costs**.(k2)** **CO2.**Explains uniform pricing and how it relates to price

		discrimination and total revenue**.(k2, k4)** **CO3.**Recognize is a role of the government to play in managerial economies **(k1)** **CO4.**Integrate the concept of price and output decisions of firms under various market structure.(k6)s

Code	**Course Name**	**Course Outcomes**
M.com – II Semester		
PCOT21	**Modern Banking And Insurance**	Able to describe fundamental concepts behind modern banking technologies. **(k1)** **CO1.**Explains how internet can help in growth of the business**.(k2)** **CO2.**Express the importance of security, privacy and ethical issues as they relate to E-Commerce. Explain the nature and principles of insurance and the regulatory framework of it in India **(k2)** **CO3.**Describe the features of General Insurance **(k1)**
PCOT22	**Advanced Cost Accouting**	Able to : Recognize the basic concepts and processes used to determine product costs, able to interpret cost accounting statements, **(K1)** **CO1.**Analyze and evaluate information for cost ascertainment, planning, control and decision making, and **(K4,K5)** **CO2.**Prepare Cost Sheet, Tender and Quotations. Various aspects of material cost control and Analyze inventory control methods **(K3)** **CO3.**Calculate Labour, Contract , Process Costing **(K3)** **CO4.**Interpret the cost accounting records **(k5)**
PCOT23	**Business Research**	To identify empirical and analytical problems affecting

	Methods	the research process and ways to overcome them. **(k1)** **CO1.**To identify a business problem/ need, translate it into a research question, and design an appropriate way to answer it. **(k1, k2)** **CO2.**Design an experiment as a research method, develop skills in choosing suitable case studies, sampling, measurement, Designing questionnaire, conducting interviews and surveys, leading focus groups. **(k6)** **CO3.**To formulate testable hypotheses and choose the most appropriate tools for testing them.**(k6)** **CO4.**Interpret research findings and their implications in a clear and well organized way, both orally and in writing**.(k5)**
PCOT24	**Quantitative Techniques for Business Decisions**	Identify the source of a quantifiable problem, recognise the issues involved and produce an appropriate action plan **(k1)** **CO1.**Extrapolate from data interpret the important trends in order to forecast as accurately as possible **(k5)** **CO2.**Employ appropriate mathematical and statistical tools to solve problems **(k3)** **CO3.**Calculate and interpret numerous statistical values and report the findings to the business manager **(k3, k5)** **CO4.**Demonstrate an ability to apply statistical methods and carry out a simple sample survey, analyse the results and present the findings to the class. **(k3, k4)**
PCOE22	**Business Environment**	Identify and evaluate the various elements of Business environment and complexities of business environment and their impact on the business**. (k1, k6)** **CO1.**Analyze the relationships between Government and Business and understand the political, economic, legal and social policies of the country. **(k4)** **CO2.**Analyze current economic conditions in developing emerging markets, and evaluate present and future

		opportunities**.(k4)** **CO3.**demonstrate the Industrial functioning and strategies to overcome challenges in competitive markets**.(k3)** **CO4.**Analyse the principle and the different foreign exchange rate regimes' impact on businesses and Integrate the concept and opening economies of developing countries like India through RTB and multilateral route (WTO). **(k4,k6)**
PCOE22	**Organizational Behaviour**	Explain the concept of organizational behaviour and classifies the behaviour of people in the organization. (**k1, k2)** **CO2:** Demonstrate the applicability of analyzing the complexities associated with management of individual behaviour in the organization**. (k3)** **CO3:** Analyze the complexities associated with management of the group behavior in the organization. **(k4)** **CO4.** Describe why conflict resolution, crucial conversations and other communication is necessary to study in organizations **(k1)** **CO5**. Discuss change management as it functions in organizational behaviour, various ways of change has succeeded and failed in contemporary issues in organizations **(k2)**

Code	**Course Name**	**Course Outcomes**
M.Com – III Semester		
PCOT31	**Indirect Taxation**	Explain the provisions of levy and collection of GST **(k1)** **CO1.**Analyse and evaluate the effect of an indirect tax

		on consumers, producers and the government. **(k4,k6)** **CO2.**Summarize various types of Assessment under GST Act **(k2)** **CO3.**Able to compute valuation of goods under Customs Duty **(k3)** **CO4.**Plan for Future Business / Implementation Challenges and Compliances & Assessment Procedures **(k6)**
PCOT32	**Financial Markets and Services**	List the role and function of the financial system with reference to the macro economy. **(k1)** **CO1.**Demonstrate an awareness of the current structure and regulation of the Indian financial services sector. **(k3)** **CO2.**Evaluate and create strategies to promote financial products and services. **(k5)** **CO3.**Summaries the various speculators and describe the speculative activities **(k2)** **CO4.**Students can describe the different components of a financial system and their role and the trading mechanism in the stock market (k6)
PCOT33	**Advanced Corporate Accounting**	Demonstrate conceptual knowledge of corporate accounting **(k1)** **CO2.** Perform the skill of recording financial transactions and preparation of reports in accordance with Indian and International Standards **(k3)** **CO3.** Prepare final accounts of Holding, banking and Insurance companies. **(k3)** **CO4**. Perform computerized accounting using Tally package**. (k3)** **CO5.** Explain comprehensive understanding of the advanced issues in corporate accounting **(k6)**
PCOT34	**Management**	Differentiate between cost accounting, financial

	Accounting	accounting and management accounting **(K4)** **CO1.**Identify Important Information Found On Key Financial Statements And Analyze The Relationships Between Key Financial Statements **(K1)** **CO2.**Perform Cost-Volume-Profit Analysis **(K3)** **CO3.**Perform Standard Costing Variation Analysis Through Standard Costs **(K3)** **CO4.**Prepare In The Analytical Statement For Decision Making, Using Relevant Cost Benefit Analysis Technique**(K3,K6)**
PCOE33	**Logistics Management**	Analyze how logistical decisions (e.g., facilities, inventory, and transportation) impact the performance of the firm. **(K4)** **CO1.**Analyze the strengths and weaknesses of various transportation modes and perform cost analysis and evaluate the logistics cost calculation methods**. (K4)** **CO2.**Develop the strategies that can be taken to find the best paths to route vehicles to deliver and collect goods at multiple stops. **(K6)** **CO3.**Develop the strategies that can be taken to manage inventories, including deciding the timing and quantity for replenishments**. (K6)** **CO4.**Compile basic characteristics and costs of warehousing and materials handling activities**.(K5)**
PCOE33	**Human Resources Management**	Effectively manage and plan key human resource functions within an organizations **(K5)** **CO1.**Examine current issues, trends, practices, and processes in HRM and Contribute to employee performance management and organizational effectiveness **(K4)** **CO2.**Ability to handle employee grievance issues and evaluate the new trends in HRM **(K6)** **CO3.**Describe appropriate implementation ,

		monitoring and assessment procedures of training and list training and development need for the 21st century **(K6)** **CO4.**State the importance of Human Resource management in planning and staffing organisational man power requirements **(K2)**

Code	Course Name	Course Outcomes
M.Com – IV Semester		
PCOT41	**Income Tax & Tax Planning**	Students will know different types of incomes and their taxability, apply various deductions to reduce the taxable income **(K3)** **CO1.**Define the procedure of direct tax assessment. **(K1)** **CO2.**Able to file IT return for individual persons. **(K3)** **CO3.**Appraise the penalties levied in the assessment of income. **(K3)** **CO4.**Give a framework for tax panning measures for different heads of income **(K2)**
PCOT42	**Strategic Management**	Able to describe major theories, background work, concepts and research output in the field of strategic management. **(K1)** **CO1.**Develop and prepare organizational strategies that will be effective for the current business environment **(K6)** **CO2.**Able to solve practical business problems in the field of strategic management, **(K3)** **CO3.**Able to make their own conclusions and place them in appropriate professional framework, **(K5)**

		CO4. Use critical analysis and synthesis in solving complex multidisciplinary issues in the field of strategic management. **(K3)**
PCOD41	**Project**	**CO1** Demonstrate a sound technical knowledge of their selected project topic**.(K3)** **CO2.** Identify problem, formulate and find solution. **CO3.** Design professional solutions to complex problems utilising a systems approach.**(K6)** **CO4**. Conduct project **(K5)** **CO5.** Communicate at large in written an oral forms. **(K5)**

M.Sc. COMPUTER SCIENCE

PROGRAMME OUTCOMES (POs)	
On successful completion of this programme the students will be able to:	
PO1:	**Get core competence in various subjects of Computer Science.**
PO2:	**Recognize the organizational need and to engage themselves in continuing professional development.**
PO3:	**Apply knowledge of computing and mathematics appropriate to the discipline.**
PO4:	**Design, implement, and evaluate a computational system to meet the desired needs within realistic constraints.**
PO5:	**Apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computational systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.**
PO6:	**Function effectively on teams to accomplish shared computing design, evaluation, or implementation goals.**
PO7:	**Recognize the need for and ability to engage in continuing professional development.**
PO8:	**Use appropriate techniques, skills, and tools necessary for computing practice.**
PO9:	**Identify, formulate, develop solutions to computational challenges. Understand professional, ethical, legal, security, and social issues and responsibilities for the computing profession.**
PO10:	**Apply design and development principles in the construction of software systems of varying complexity.**

PROGRAMME SPECIFIC OUTCOMES	
PS01:	Able to handle any kind of software development
PS02:	Able to maintain the software network to handle the technological challenges.
PS03:	Able to develop strong analytical skills, critical thinking and experimental skills.

PS04:	Able to solving on Computational problems, system networking knowledge, use of technology with innovative ideas

M.Sc. Computer Science – I,II,III & IV Semesters

Code	Course Name	Course Outcomes
M.Sc.Computer Science – I Semester		
PCST11	**Advanced Java Programming**	After successful completion of this course, the students shall be able to **CO1:** Design and Create Java Applications using OOPs concept **K6** **CO2:** Utilise the features of exception handling, threads & util package in Java. **K3** **CO3:** Simplify the communication between client & server using database connectivity. **K2** **CO4:** Build Java applications that include GUIs and event driven programming **K3**
PCST12	**Data Structures And Algorithms**	After successful completion of this course, the students shall be able to **CO1:** Analyse the space and time complexities for an algorithm **K2** **CO2:** Identify and use appropriate data structure to solve problems **K3** **CO3:** Use Hashing Techniques to solve real time Problems **K3** **CO4:** Implement and Handle various searching and sorting algorithms **K3, K4**
PCST13	**Mathematical Foundations Of Computer Science**	After successful completion of this course, the students can be able to **CO1:** Construct simple mathematical proofs and possess the ability to verify them. **K6** **CO2:** Utilise Algebraic Structures and Recurrence

		Function**K3** **CO3:** Know various graphs and its algorithms in computer programs. **K2** **CO4**: Describe computer programs in a formal mathematical manner **K2**

Code	Course Name	Course Outcomes
M.Sc.Computer Science – II Semester		
PCST21	**Advanced Operating System**	Students will be able to gain: **CO1:**Knowledge about advanced concepts in OS **K4** **CO2:**Able to rectify the designing concepts of OS **K4** **CO3:** Ability to develop OS for distributed systems **K3** **CO4**:Understand the Mutual exclusion, Deadlock detection and file sharing in Distributed operating system **K2**
PCST22	**Relational Database Management System**	After successful completion of the course, Student shell be able to: **CO1:**Create E/R models from application descriptions. **K6** **CO2:**Improve the database design by normalization. **K4** **CO3:** Students can create database structure **K3** **CO4:** Create databases in an RDBMS and enforce data integrity constraints and queries using SQL **K3, K4**
PCST23	**Computer Networks**	After successful completion of the course, Student

		shall be able to: **CO1:** Have a good understanding of the OSI Reference Model **K2** **CO2**. Students can understand TCP/IP Model and in particular have a good knowledge of Layers. **K2** **CO3:**Identify the different types of network devices and their functions within a network **K4** **CO4:** Students will Analysis the requirements for a given organizational structure. **K4**

Code	**Course Name**	**Course Outcomes**
M.Sc.Computer Science – III Semester		
PCST31	**Compiler Design**	Understand the working process of the compiler. **K2** **CO1**: Learn the various parsing techniques and different levels of translation. **K4** **CO2**: Have a good understanding of specific object code from source language. **K2** **CO3**: Learn to optimize the code and schedule for optimal performance. **K4**
PCST32	**Software Engineering**	After successful completion of the course, Student shall be able to: **CO1:** Understands the process to be followed in the software development life cycle **K2** **CO2:** Understand fundamental concepts of requirements engineering. **K1** **CO3**: Find the practical solutions to the problems. **K4**

		CO4: Student can work as an individual and as part of a multidisciplinary team to develop and deliver quality software **K5,K6**
PCST33	**Web Programming**	1. Students will learn to design web pages using HTML. **K6** 2. Able to gain knowledge on creating interactive web pages using JavaScript, Query. **K2,K4** 3. Able to write a program and to use Cascading Style Sheets (CSS) and DOM. **K3** 4. Able to develop server side scripting using PHP **K3**

Code	**Course Name**	**Course Outcomes**
M.Sc.Computer Science – IV Semester		
PCST41	**Digital Image Processing**	After completion of the course, Student shall be able to **CO1.** Understand how digital images are represented and manipulated in computer **K2** **CO2**. Develop a broad range of image processing techniques and their applications. **K3** **CO3:** Understand the different types of image transformations and image features. **K4** CO4: Understand the advancements in Computer Vision of Images. **K4**
PCST42	**Mobile Computing**	After successful completion of the course, Student shall be able to: **CO1:.** Understand the characteristics and limitations of mobile hardware devices including their user-interface modalities **K2** CO2. Design and develop context-aware solutions for

		mobile devices. **K3** CO3. have clear idea about Satellite Systems **K2** **CO4**. develop their knowledge in mobile computing system and how to interact with servers and database systems. **K3**
PCSE11	**Computer Graphics**	After successful completion of the course, Student shall be able to: **CO1:** Explain Graphic primitives and the working of I/O devices **K2** **CO2.** Apply geometric transformations in objects **K3** **CO3.:** Implement Graphic modeling process **K3** **CO4**: Create interactive graphics applications in C++ using graphics application programming interfaces. **K6**
PCSE22	**Data Warehousing and Data Mining**	After successful completion of this course, the students shall be able to **CO1:** Identify the characteristics of data warehousing. **K4** **CO2:** Identify the association rules for mining applications. **K4** **CO3:** Design appropriate classification/clustering techniques for data mining problems **K3** CO4: Select appropriate tools for various data mining applications. **K4**
PCSE22	**Cryptography And Network Security**	After completion of the Course, students shall be able to **CO1:** Learn and operate secure programming techniques **K2**

		CO2: Understand the design issues in Network Security **K2** **CO3:** Identify security threats, security services and mechanisms to counter them. **K4** **CO4:** Be familiar with security applications in wireless environment **K3**
PCSE33	**Software Project Management**	After completion of the Course, Students shall be able to **CO1**: Learn how to estimate the cost associated with a project **K2** **CO2**:Plan and monitor projects for the risk management **K4** **CO3**:Learn the process of monitoring and controlling **K2** **CO4**:Gain the in-depth knowledge about software development standards and to know how to manage people and organization of teams with their own. **K4**
PCSE33	**Big Data Analytics**	After completion of the Course, students shall be able to **CO1**:Know the fundamental concepts of big data and analytics. **K1** **CO2**:tilise the tools and practices for working with big data **K3** **CO3**: understand about the research that requires the integration of large amounts of data. **K2** **CO4:**Gain the In depth knowledge in stream computing **K2**

M.A. ENGLISH

PROGRAMME OUTCOMES (POs)	
On successful completion of M. A. English programme, the students would have	
PO1:	developed mastery of English language skills and forms to be used in explicitly meaningful contexts through literature and criticism
PO2:	acquired necessarily required linguistic competence to be mastered in various real life situations
PO3:	appreciated and admired the master minds of literature and analyzed a variety of literary samples to determine the components, organizations, and structure of academic text
PO 4:	molded themselves into full-fledged literary critics with good attitude towards objectivecriticism and unbiased conclusions
PO 5:	integrated the indispensable human values to become respectful humans and law-abiding citizens
PO6:	promoted their managerial skills to work independently and in groups so that they could transform themselves into job-ready candidates and achieve their career goals
PO7:	widened their perspective to face the literary and artistic challenges and incorporate ICT skills to clear competitive examinations like NET, SET, UPSC, TNPSC etc.

PROGRAMME SPECIFIC OUTCOMES	
At the end of the programme, the student will be able to	
PSO1:	Read, understand, analyze, interpret, and extrapolate from the complex texts that are at the heart of the diverse traditions of the English language.
PSO2:	Identify, analyze, interpret and describe the critical ideas, values, and themes that appear in literary and cultural texts and understand the way these ideas, values, and themes inform and impact culture and society, both now and in the past.
PSO3:	Demonstrate a command of written academic English, including the abilities to a) organize and present material in a cogent fashion, b) formulate and defend original arguments, c) employ effectively the language of their discipline, and d) write under time constraints.
PSO4:	Analyse, interpret, and understand the complex interrelationships between authors, texts, and specific social, political, and historical contexts and apply critical and theoretical approaches to the reading and analysis of literary and cultural texts in multiple genres.
PSO5:	Write well in a variety of formats, including essays, research papers, reflective writing, and critical reviews of secondary sources and to cogently convey their own interpretations and perspectives, or produce new creative and artistic works themselves

M.A.English – I,II,III & IV Semesters

Code	Course Name	Course Outcomes
M.A. English – I Semester		
PENT11	**British Literature I**	**CO1:**know the poetic tactics of the classical writers**(K1,K2)** **CO2:**understand the difference between Old English and Middle English**(K1,K2)** **CO3:**be aware of the salient features of aphoristic style **(K2,K4)** **CO4:**Discover and to apply the creative power behind art and literature **(K2,K3,K6)** **CO5:**Critically analyze the life and works of great writers and will be able to create literary pieces on their own **(K4,K6)**
PENT12	**British Literature II**	**CO1:**understand the sense of rationalism and sensibility of the writers **CO2:**recognize and understand the figurative language **CO3:**apply the technical nuances of Neo-Classical dramas **CO4:**comprehend the artistic style of the writers and to adopt the style in writing **CO5:**appreciate the intense zeal of the writers and to stimulate the creativity of the students
PENT13	**Indian Writing in English**	**CO1:**Understand the social, and political controversies in India during the colonial and post- colonial periods **CO2:**Acquire knowledge about Indian cultural ethos and its uniqueness **CO3:**Evaluate the unique characteristics of Indian writing in English **CO4:**Appreciate the spirit of the Indian writers to preserve the noble values of Indian society **CO5:**Acquire literary acumen for facing the SET/ NET/TET and

		other competitive examinations with confidence
PENT14	**Diasporic Fiction**	**CO1:**introduce the emerging body of literature **CO2:**intimate the process of cross cultural studies and comparative literary studies **CO3:**display an understanding of both literal and metaphorical meaning of literary texts **CO4:**negotiate the complexities and ambiguities **CO5:**incorporate the literary products with different cultural and geographical specificity
PENE11	**Creative Writing**	**CO1:**Construct a variety of flawless sentences in English using appropriate grammatical structures **CO2:**Earn their skills in Technical Writing to be a reporter, Content Writer **CO3:**Draft effective research proposals/reports **CO4:**Exploit the resources of English language for professional enrichment **CO5:**Master the mechanics of writing and to be a writer/a teacher

Code	**Course Name**	**Course Outcomes**
M.A. English – II Semester		

PENT21	**British Literature-III**	**CO1:**know the revolutionary ideologies of the romantic writers **CO2:**identify the lyrical qualities in romantic poetry **CO3:**discover the creative power behind art and literature and to imitate and to recreate **CO4:**appreciate the style of the essayists **CO5:**relish the aesthetic beauty, wonder in the realm of nature and reflect in Writing
PENT22	**British Literature – IV**	**CO1:**know the religious and philosophical insight through dramatic monologues **CO2:**understand the writers' vision for the betterment of mankind **CO3:**ponder the values and ideas propagated by the Victorian writers **CO4:**explore the several social problems in Victorian England **CO5:**analyze the life of the Victorians to apply human values and ethics in real life
PENT24	**Shakespeare-V**	**CO1:**understand the magnitude of the Shakespearean world **CO2:**introspect the complexities of Shakespeare's plays **CO3:**attain a comprehensive knowledge of the plays of Shakespeare **CO4:**analyze the stylistic features of Shakespeare **CO5:** relish the sublimity of Shakespearean language and express through creative writing

Code	**Course Name**	**Course Outcomes**

M.A. English – II Semester		
PENT21	**Language and Linguistics**	**CO1:**know the concepts of linguistics **CO2:**familiarize with the basic symbols of the International Phonetic Alphabet and to familiarize with pronunciation **CO3:**enhance intrinsic values of language usage **CO4:**analyze the various aspects of articulation effects **CO5:**practice the intricacies of various structures of modern English and to practice transcription
PENE22	**TRANSLATION THEORY AND PRACTICE**	**CO1:**understand the history of translation **CO2:**develop the transactional skills **CO3:**refine their standard in translation **CO4:** appreciate the intercultural concepts **CO5:**apply the intrinsic skills of translation

Code	Course Name	Course Outcomes
M.A. English – III Semester		
PENT31	**American Literature**	**CO1:**learn the literary works & culture of the Americans **CO2:**understand the literary activities of the writers of American descent **CO3:**gain a perception of literary trends set by the American writers **CO4:** understand the character, flavor and ethos of the American literature **CO5:**Appreciate the positive approaches of the American writers towards equality and emancipation and enable them

		to practice and to be an instructor.
PENT32	**World Classics In Translation**	**CO1:**Acquire perception of the classical texts amidst the whole gamut of world literatures. **CO2:**Discover the richness of the cultures and their writings **CO3:**Possess the capacity to identify, expound on and compare literary genres and periods. **CO4:**Relish the essence of knowing the works of people from other cultures and background. **CO5:**Exposed to analyze and demonstrate the knowledge of the major literary movements of the period and to apply in translation oriented works.
PENT33	**Literary Theory And Criticism**	**CO1:**The course intends to provide a critical understanding of the developments in literary criticism from the beginning to the end of 19th century **CO2:**Moreover some selected texts/critics are prescribed for detailed study whose contribution to this area constitutes a significant benchmark in each era. **CO3:**It also provides a conceptual framework for developing an understanding of the function and practice of traditional modes of literary criticism **CO4:**Learn the history of literary criticism and various literary theories. Apply critical and technical theory and vocabulary to describe and analyze, and formulate an argument about literary and other texts. **CO5:**Think about the non-fixity of meaning of literacy texts. Develop a skill in applying various literary theories in interpreting a specific text.

PENE33	**Writing For The Media**	**CO1:**Demonstrate their ability to observe events, gather information, write news reports and news releases and report on events **CO2:**Gain first-hand experience in the designing the News Letters. **CO3:**Understand the difference between communication and media theories and would have gained expertise to handle this area in their profession **CO4:**grasp the complex relationship between communication/media theories and a diverse set of individual, social, and professional practices **CO5:**Know the processes and practice of writing for the media and to have placement in Media
PENT34	**Research Methodology**	**CO1:**Comprehend Literary Research against other types of researches and will have learnt to identify and describe the Research Question **CO2:**Imbibe the rhetoric styles, language appropriate for research and the knowledge on the mechanics and methodology of writing a literary project **CO3:**Acquire training in selecting and defining the appropriate research problem and parameters. **CO4:**Understand how to organize ideas and format a dissertation. **CO5:**develop data analytics skills and meaningful interpretation to the data sets so as to solve the Research problem

Code	Course Name	Course Outcomes
M.A. English – IV Semester		
PENT41	**Post Colonial Literature**	**CO1:**Familiarized with some of the seminal works on colonialism **CO2:**Acquainted with the key concepts of postcolonial literary theory through the study of postcolonial texts **CO3:**Introduced to aspects of subjectivity, race, class and feminism as they inhere in the postcolonial space **CO4:**Known how a literary text, explicitly or allegorically; represents various aspects of colonial oppression **CO5:**Learnt how a text reveals about the politics and/or psychology of anti-colonialist resistance and trace the history of post-colonial movements in India and its textual representations and trained them to teach and to be sensitized towards cross cutting issues.
PENT42	**Women's Writing**	**CO1:**Learn how and on what grounds women's writings can be considered as a separate genre. **CO2:** Read and understand canonical texts written by Women writers across different ages. **CO3:**Differentiate between sex and gender and how the latter is a social construction. **CO4:**Be aware about the issues and concerns of the women writers of the developed, developing and under-developed countries **CO5:**Demonstrate awareness of cultural and intercultural concerns relating to women's writing

M Sc. MATHEMATICS

PROGRAM EDUCATIONAL OBJECTIVES	
The M. Sc Mathematics curriculum is dedicated to preparing students for productive careers after 3-5 years of graduation.	
PEO1:	Apply their knowledge in modern industry or teaching, or secure acceptance in highquality graduate programs in mathematics.
PEO2:	Development in their chosen profession and/or progress toward an advanced degree
PEO3:	The trust and respect of others as effective and ethical team members.
PEO4:	Graduates will become effective collaborators and innovators, leading or participating in efforts to address social, technical and business challenges.
PEO5:	Promote the culture of interdisciplinary research among all disciplines and applied mathematics.

PROGRAMME OUTCOMES	
PO1:	Inculcate critical thinking to carry out scientific investigation objectively without being biased with preconceived notions.
PO2:	Equip the student with skills to analyze problems, formulate a hypothesis, evaluate and validate results, and draw reasonable conclusions thereof.
PO3:	Prepare students for pursuing research or careers in industry in mathematical sciences and allied fields
PO4:	Continue to acquire relevant knowledge and skills appropriate to professional activities and demonstrate highest standards of ethical issues in mathematical sciences.
PO5:	Create awareness to become an enlightened citizen with commitment to deliver one's responsibilities within the scope of bestowed rights and privileges.

PROGRAMME SPECIFIC OUTCOMES	
PSO1:	Understanding of the fundamental axioms in mathematics and capability of developing ideas based on them.
PSO2:	Prepare and motivate students for research studies in mathematics and related fields.
PSO3:	Provide advanced knowledge on topics in pure mathematics, empowering the studentsto pursue higher degrees at reputed academic institutions.
PSO4:	Nurture problem solving skills, thinking, creativity through assignments, project work.
PSO5:	Assist students in preparing (personal guidance, books) for competitive exams e.g. NET, GATE, etc.

M.Sc. Mathematics – I,II,III & IV Semesters

Code	Course Name	Course Outcomes
M.Sc.Mathematics – I Semester		
PMTT11	**Linear Algebra**	Upon successful completion of this course students will be able to: **CO1:** Determine relationship between coefficient matrix invertibility and solutions to a system of linear equations and the inverse matrices. **CO2:** Find a basis for the row space, column space and null space of a matrix and find the rank and nullity of a matrix. **CO3:** Students completing this course will be able to find the matrix representation of a linear transformation given bases of the relevant vector spaces. **CO4:** Use computational techniques and algebraic skills essential for the study of systems of linear equations, matrix algebra, vector spaces, eigenvalues and eigenvectors, orthogonality and diagonalization. (Computational and Algebraic Skills). **CO5:** Work collaboratively with peers and instructors to acquire mathematical understanding and to formulate and solve problems and present solutions.
PMTT12	**Real Analysis- I**	**Upon the successful completion of the course, students will be able to** **CO1:** Students will be able to demonstrate competence with elementary properties of sets by proving identities involving union and intersection and Cartesian Products of sets. **CO2:** Students will be able to demonstrate competence with elementary properties of functions by proving results involving composite functions and inverse functions. **CO3:** Students will be able to demonstrate competence with the algebraic and order properties of real numbers.

		CO4: Students will be able to demonstrate competence with properties of real numbers by finding supremum and infimum of sets and using the completeness property of real numbers. **CO5:** Students will be able to demonstrate ability to use Taylor Theorem, the Mean value Theorem, and use L'Hôpital's Rule to compute limits of functions.
PMTT13	**Differential Equations**	**Upon the successful completion of the course, students will be able to** **CO1:** Recognize differential equations that can be solved by each of the three methods – direct integration, separation of variables and integrating factor method – and use the appropriate method to solve them **CO2:** Use an initial condition to find a particular solution of a differential equation, given a general solution **CO3:** Check a solution of a differential equation in explicit or implicit form, by substituting it into the differential equation CO4: Understand the terms 'exponential growth/decay', 'proportionate growth rate' and 'doubling/halving time' when applied to population models, and the terms 'exponential decay', 'decay constant' and 'half-life' when applied to radioactivity
PMTT14	**Graph Theory**	**Upon the successful completion of the course, students will be able to** **Course Outcomes:** **CO1:** State all of the technical definitions covered in the course (such as a graph, tree, planar graph, colouring, digraph, generating function, linear extension, and other terms). **CO2:** State all of the relevant theorems covered in the course. **CO3:** Formulate graph theoretic models to solve real world problems (e.g., scheduling problems). **CO4:** Analyze combinatorial objects satisfying certain

		properties and answer questions related to existence (proving the existence or non-existence of such objects), construction (describing how to create such objects in the case they exist), enumeration (computing the number of such objects), and optimization (determining which objects satisfy a certain extremal property).

Code	Course Name	Course Outcomes
M.Sc.Mathematics – II Semester		
PMTT21	**Algebra**	**Upon the successful completion of the course, students will be able to** **CO1:** Students will have a working knowledge of important mathematical concepts in abstract algebra such as definition of a group, order of a finite group and order of an element. **CO2:** Students will be introduced to and have knowledge of many mathematical concepts studied in abstract mathematics such as permutation groups, factor groups and Abelian groups. **CO3:** Students will actively participate in the transition of important concepts such homomorphisms & isomorphisms from discrete mathematics to advanced abstract mathematics. **CO4:** Students will gain experience and confidence in proving theorems. A blended teaching method will be used requiring the students to prove theorems give the student the experience, knowledge, and confidence to move forward in the study of mathematics.
PMTT22	**Real Analysis-II**	**Upon the successful completion of the course, students will be able to**

		CO1: Investigate the ideas of continuity and inverse images of open and closed sets, functions continuous on compact sets **CO2:** Differentiate the concepts of connectedness and implement them on various sets. **CO3:** Examine the derivatives of functions and apply few theorems based on it. **CO4:** Investigate properties of monotonic functions. **CO5:** Learn the properties of Riemann- Stieltjes integral.
PMTT23	**TOPOLOGY**	**Upon the successful completion of the course, students will be able to** **CO1:** Know how the topology on a space is determined by the collection of open sets, by the collection of closed sets, or by a basis of neighbourhoods at each point, and you know what it means for a function to be continuous. **CO2:** Know the definition and basic properties of connected spaces, path connected spaces, compact spaces, and locally compact spaces. **CO3:** Know what it means for a metric space to be complete, and you can characterize compact metric spaces. **CO4:** Familiar with the Urysohn lemma and the Tietze extension theorem, and you can characterize metrizable spaces. **CO5:** Familiar with the construction of the fundamental group of a topological space and applications to covering spaces and homotopy theory.
PMTT24	**Optimization Techniques**	**CO1:** The students will be able to analyze the real life systems with limited constraints **CO2:** Identify the mathematical nature of a given optimization problem

		CO3: Analyze a range of classes of optimization problems **CO4:** Identify solution methods for the optimization problems studied **CO5:** The students will be able to depict the systems in a mathematical model form**.**

Code	Course Name	Course Outcomes
M.Sc.Mathematics – III Semester		
PMTT31	**Complex Analysis**	**Upon the successful completion of the course, students will be able to** CO1: Explain and apply Cauchy's integral formula and some of its consequences CO2: explain the convergence of power series and develop analytical capabilities in Taylor or Laurent series in a given domain CO3: Define the fundamental concepts of complex numbers and its properties, Exponential, logarithmic, trigonometric and hyperbolic complex functions . CO4: Describe Holomorphic and harmonic complex functions and list different examples. CO5: State Complex integral on a path – Cauchy theorem

		and Cauchy integral formula name zeros and singularities of a Complex function and the Residue theorem .
PMTT32	**Measure Theory**	**Upon the successful completion of the course, students will be able to** **CO1:** Master in an abstract context, the fundamental theorems of integration learned during the previous courses of analysis for the case of the Euclidean spaces, harmonizing the latter with the example of the outer Lebesgue measure. **CO2:** Build a measure starting from a countable additive set function defined on a semi-algebra of subsets or starting from a sequence of suitably chosen measures. **CO3:** Integrate a measurable function with respect to a measure
PMTT33	**Classical Dynamics**	**Upon the successful completion of the course, students will be able to** **Course Outcomes:** **CO1:** Be able to solve the Lagrange's equations for simple configurations using various methods. **CO2:** Understand the concept of Hamilton Jacobi Theory. **CO3:** Be able to understand the concept canonical Transformations CO4: **To develop skills in formulating and solving physics problems** **CO5: Able to get idea of dynamical systems are of relatively recent origin, the concept of motion in phase-space and its geometrical depiction is simple.**
PMTT34	**Calculus Of Variations And Integral Equations**	**Upon the successful completion of the course, students will be able to** **CO1:** Determine asymptotes for rational expressions (we will not go into these graphs in much detail) **CO2:** Apply the techniques from the previous section to graph a fourth degree polynomial or higher

		CO3: On successful completion of the course students will be able to recognize difference between Volterra and Fredholm Integral Equations, First kind and Second kind, homogeneous and inhomogeneous etc. **CO4:** They apply different methods to solve Integral Equations.

Code	**Course Name**	**Course Outcomes**
M.Sc.Mathematics – IV Semester		
PMTT41	**Functional Analysis**	**CO1:** To learn to recognize the fundamental properties of normed spaces and of the transformations between them. **CO2:** To be acquainted with the statement of the Hahn-Banach theorem and its corollaries. To understand the notions of dot product and Hilbert space. **CO3:** To apply the spectral theorem to the resolution of integral equations and Sturm-Liouville problems. **CO4:** The learner will gain knowledge normed linear space, Banach spaces, Hahn-Banach theorem(open and closed) and (general and structure) banach algebra.
PMTT42	**Differential Geometry**	**CO1:** After completing this course, students should be able to: Determine and calculate curvature of curves in different coordinate systems. **CO2:** Treat geodesic curves and parallel translation Calculate and analysis curvature of surfaces in different settings. **CO3:** Know the concept of tensor and recognize tensors that are used in mechanics, image processing and theory of relativity. **CO4:** Apply geometry of curves and surfaces to computer aided graphics.

Elective Papers 1	**Algebraic Number Theory**	**CO1:** Demonstrate knowledge and understanding of topics including, but not limited to divisibility, prime numbers, congruence, quadratic reciprocity, Diophantine equations. **CO2:** Learn methods and techniques used in number theory. **CO3:** Write programs/functions to compute number theoretic functions. **CO4:** Use mathematical induction and other types of proof writing techniques.
Elective Papers 2	**Automata Theory**	**CO1:** Acquire a fundamental understanding of the core concepts in automata theory and formal languages. **CO2:** An ability to design grammars and automata (recognizers) for different language classes. **CO3:** An ability to identify formal language classes and prove language membership properties. **CO4**: An ability to prove and disprove theorems establishing key properties of formal languages and automata. **CO5: To** solve the sums based on automata and grammar.
Elective paper 3	**Probability Theory And Statistics**	**CO1:** Able to understand the concepts of various parameter estimation methods, like method of moments, maximum likelihood estimation and confidence intervals **CO2:** Able to apply the appropriate Chi-Squared test for independence and goodness of fit **CO3:** Students will frame problems using multiple mathematical and statistical representations of relevant structures and relationships and solve using standard techniques. **CO4:** The learner to know constructing the probability distribution of a random variable based on the real-world situation and compute mean and variance and

		many Distributions
Elective paper 4	**Matlab & Latex**	**CO1:** Able to use Matlab for interactive computations. **CO2:** Familiar with memory and file management in Matlab**.** **CO3:** Able to generate plots and export this for use in reports and presentations. **CO4:** Cooperating and working with others using subversion **CO5:** Debugging and optimising their programs
Elective paper 5	**Fuzzy Sets And Their Applications**	**CO1:** Be able to distinguish between the crisp set and fuzzy set concepts through the learned **CO2:** Differences between the crisp set characteristic function and the fuzzy set membership function. **CO3:** Be able to draw a parallelism between crisp set operations and fuzzy set operations through the use of characteristic and membership functions respectively. **CO4:** Become aware of the use of fuzzy inference systems in the design of intelligent
Elective paper 6	**Neural Networks**	**CO1:** Understand the differences between networks for supervised and unsupervised learning. **CO2:** Design single and multi-layer feed-forward neural networks. **CO3:** Develop and train radial-basis function networks. **CO4:** Program linear and nonlinear models for data mining. **CO5:** Analyze the performance of neural networks
Elective Paper 7	**Stochastic Process**	**CO1:** The student has basic knowledge about stochastic processes in the time domain. **CO2:** The student has acquired more detailed knowledge about Markov processes with a discrete

		state state space, including Markov chains, Poisson processes and birth and death presses. **CO3:** The student also knows about queuing systems and Brownian motion, in addition to mastering the fundamental principles of simulation of stochastic processes and the construction of Markov chain Monte Carlo (MCMC) algorithms. **CO4:** The student is able to formulate simple stochastic process models in the time domain and provide qualitative and quantitative analyses of such models.
Elective paper 8	**Fluid Dynamics**	**CO1:** Solve hydrostatic problems. **CO2:** Describe the motion of fluids. **CO3:** Identify derivation of basic equations of fluid mechanics and apply **CO4:** Make dimensional analysis and similitude
Elective paper 9	**Non Linear Differential Equations**	**CO1:** After completed course, the students are expected to be able to. **CO2:** Give account for existence and uniqueness of the solutions of ordinary differential equations solutions. **CO3:** Make use of the phase plane to analyse two-dimensional systems with emphasis on equilibrium, existence of limit cycles and linearisation. **CO4:** Summarise theorems that related to the existence of periodical solutions, and apply them to simple systems. **CO5:** Explain important terms in asymptotic theory, such as, order symbols, asymptotic sequences and asymptotic series, and give account for truncation and convergence of asymptotic series.
Elective paper 10	**Financial Mathematics**	**CO1:** On successful completion of this course students will be able to: **CO2:** Demonstrate understanding of basic concepts in linear algebra, relating to linear equations, matrices,

		and optimization. **CO3:** Demonstrate understanding of concepts relating to functions and annuities. **CO4:** Employ methods related to these concepts in a variety of financial applications. **CO5:** Apply logical thinking to problem solving in context.
Elective paper 11	**Control Theory**	**CO1:** Be able to understand Reconstruction Kernal, streaming Function **CO2:** Able to analyze the stability of linear systems **`CO3:** Problem solving skillsare developed in linear time invariant systems
Elective paper 12	**Fractal Analysis**	**CO1:** Understand the contraction mappings on the space of Fractals **CO2:** Able to analyze fractal dimensions **CO3:** Understand The Structured Walk Technique and the Divider Dimension **CO4:** The learner will able to understand the basic concepts of fractals and measure recognize the space of fractals and fractal dimension **CO5:** Find the Hausdorff, box-counting and other dimensions understand the self – similar sets properties of fractals recognize the concepts fractal interpolation.
Elective paper 13	**Tensor Analysis And Special Theory Of Relativity**	**CO1:** Use tensor notation in relativity theory. **CO2:** Apply the concepts of length contraction and time dilation as well as use Lorentz transformations. **CO3:** Solve simple kinematical problems. **CO4:** Analyze Maxwell's equations and use their relativistic invariance

Elective paper 14	**Mathematical Biology**	**CO1:** Formulate and solve mathematical models of evolution in terms of optimisation and game theory problems; **CO2:** Use techniques from stochastic processes to describe population genetics; **CO3:** Use techniques from partial differential equations to describe spread of genes, disease and other biological material; **CO4:** Explain how these techniques are applied in scientific studies and applied in ecology and epidemiology.

M.Sc. Biochemistry

Programme Specific Outcomes (PSOs)

On completion of M.Sc. Biochemistry programme, Students will be able to

PSO1	enrich the knowledge in the advanced concepts and principles of Biochemistry
PSO2	strengthen the theoretical knowledge in biochemistry to secure a successful career
PSO3	utilize the knowledge attained from the programme to work as Biochemists in emerging modern clinical laboratories and scientific government organizations
PSO4	communicate appropriately and effectively with people in the field of Biochemistry and other allied backgrounds
PSO5	develop hands on experience and laboratory experiments perceived will be constructive to pursue research

Course Code	**P21BCT11**	**CHEMISTRY OF BIOPOLYMERS**	**L**	**T**	**P**	**C**
CORE I			**5**	**-**	**-**	**4**

Upon completion of this course, the students will be able to

CO	**Course Outcomes**	**Knowledge Level**
CO1	understand the foundation of life and structure and functions of carbohydrates.	**K1,K2**
CO2	attain knowledge on the structure, properties, role and classification of lipids and fatty acids.	**K1,K2,K3**
CO3	illustrate the structure, properties, role and classification of amino acids and proteins.	**K1,K2,K3**
CO4	understand the types of Nucleic acids, its structure and biological importance.	**K1,K2,**
CO5	know the basic concept of the various types, functions, requirements and deficiency diseases of Vitamins.	**K1,K2,K3**

Course outcome

Course Code	P21BCT12	ENZYMES AND ENZYME TECHNOLOGY	L	T	P	C
CORE - II			5	-	-	4

Course outcome

Upon completion of this course, the students will be able to		
CO	**Course Outcomes**	**Knowledge Level**
CO1	know the classification and properties of enzymes and coenzymes.	K1,K2
CO2	understand the enzyme kinetics and Inhibition.	K1,K2,K3
CO3	attain knowledge the enzyme regulation and lysosome.	K1,K2
CO4	gain knowledge on enzyme immobilization and their uses.	K1,K2
CO5	learn about the commercial production of enzymes and their applications.	K1,K2,K3

Course Code	P21BCT13	CELLULAR BIOCHEMISTRY	L	T	P	C
CORE- III			5	-	-	4

Course outcome

Upon completion of this course, the students will be able to		
CO	**Course Outcomes**	**Knowledge Level**
CO1	understand the structural organization and function of cell organelles	**K1,K2**
CO2	know about membrane assembly and membrane transport	**K1,K2,K3**
CO3	recognize host parasite interaction and induced disease	**K1,K2**
CO4	employ the knowledge on receptor and signaling pathways	**K1,K2,K3**
CO5	thoroughly understand the cell division and cell cycle	**K1,K2**

Course Code	P21BCT14	BIOENERGETICS AND METABOLISM	L	T	P	C
CORE IV			5	-	-	4

Course utcome

Upon completion of this course, the students will be able to		
CO	**Course Outcomes**	**Knowledge Level**
CO1	learn the concepts of thermodynamics and electron transport chain.	**K1,K2**
CO2	acquire knowledge on carbohydrate metabolism and their regulation.	**K1,K2,K3**
CO3	know the biosynthesis and metabolism of lipid.	**K1,K2**
CO4	understand the metabolism of aminoacid and nucleicacid.	**K1,K2**
CO5	acquire deep knowledge on the principles of metabolic regulation	**K1,K2,K3**

Course Code	P21BCP11	PRACTICAL – BIOCHEMICAL TECHNIQUES AND BIOCHEMICAL ANALYSIS	L	T	P	C
CORE V			-	-	6	4

Course outcome

Upon completion of this course, the students will be able to		
CO	**Course Outcomes**	**Knowledge Level**
CO1	acquire knowledge on preparation of enzyme and their effect various factors.	**K1,K2**
CO2	demonstrate the serum enzyme activity through assays	**K1,K2,K3**
CO3	gain knowledge about lipid analysis.	**K1,K2,K3**
CO4	learn and understand about the separation of lipids	**K1,K2**

CO5	understand and describe aminoacid separation	**K1,K2**

Course Code	**P21BCT21**	**MOLECULAR ENDOCRINOGLOGY**	**L**	**T**	**P**	**C**
CORE VI			**5**	**-**	**-**	**4**

Course Outome

Upon completion of this course, the students will be able to

CO	**Course Outcomes**	**Knowledge Level**
CO1	know about the hormone biosynthesis and their behavior.	**K1, K2, K3**
CO2	thoroughly understandthe anatomy and biochemical action of pituitary hormones.	**K1, K2**
CO3	gain knowledge about the regulation of thyroid hormone.	**K1, K2, K3**
CO4	illustrate the anatomy of pancreas and its hormonal action.	**K1, K2, K3**
CO5	acquire knowledge on the biosynthesis, secretion and mechanism of action of adrenal hormones.	**K1, K2**

Course Code	**P21BCT22**	**CLINICAL BIOCHEMISTRY**	**L**	**T**	**P**	**C**
CORE VII			**5**	**-**	**-**	**4**

Course outcome

Upon completion of this course, the students will beable to

CO	**Course Outcomes**	**Knowledge Level**
CO1	acquire deep knowledge on the disorders of carbohydrate and lipid metabolism.	**K, K2, K3**
CO2	recognize the disorders of proteinand nucleic acid metabolism.	**K1, K2, K3**
CO3	understand the liver function and gastric function test.	**K1, K2**
CO4	know about renal function test andrenal disorder.	**K1, K2**

CO5	know about the serum enzyme level and mineral metabolism.	**K1, K2, K3**

Course Code	**P21BCT23**	**IMMUNOBIOLOGY**	**L**	**T**	**P**
CORE VIII			**4**	**-**	

4

Course outcome

Upon completion of this course, the students will be able to		
CO	**Course Outcomes**	**Knowledge Level**
CO1	list the types of immunity and their immune response against Antigens.	K1, K2
CO2	know about the importance of immune antigen, antibody reaction and comple	K1, K2, K3
CO3	Illustrate the interaction of T and B lymphocytes and processing of Antigen.	K1, K2, K3
CO4	know about preparation of vaccines, immune reactions and immune tolerance.	K1, K2
CO5	gain knowledge on transplantation immunology, auto immune di and Immunoglobulin disorder.	K1, K2

Course Code	**P21BCT24**	**BIOTECHNOLOGY**	**L**	**T**	**P**	**C**
CORE IX			**4**	**-**	**-**	**4**

Course Outcome

Upon completion of this course, the students will be able to		
CO	**Course Outcomes**	**Knowledge Level**
CO1	attain the concepts of genetic engineering techniques and isolation of nucleic acid.	K1, K2, K3

CO2	describe about vectors and cloning techniques	K1, K2, K3
CO3	know about construction of genomic libraries and blotting techniques.	K1, K2, K3
CO4	learn about gene transfer techniques and their applications.	K1, K2
CO5	gain knowledge about bioethics, applications of Recombinant technology.	K1, K2, K3

Course Code	**P21BCP22**	**PRACTICAL- IMMUNOBIOLOGY AND CLINICAL BIOCHEMISTRY**	**L**	**T**	**P**	**C**
CORE X			**-**	**-**	**6**	**4**

Course Outcome

Upon completion of this course, the students will be able to		
CO	**Course Outcomes**	**Knowledge Level**
CO1	gain knowledge on different methods for identification of antigens.	**K1, K2**
CO2	interpret antigen and antibody reaction	**K1, K2, K3**
CO3	examine blood urea, sugar, uric acid, creatinine.	**K1, K2, K3**
CO4	learn and understand the urine urea, uric acid and sugar.	**K1, K2, K3**
CO5	understand the procedure to analyze the urine component.	**K1, K2, K3**

Course Code	P21BCN211	WOMEN HEALTH	L	T	P	C
NME			4	-	-	4

Course outcome

Upon completion of this course, the students will be able to		
CO	**Course Outcomes**	**Knowledge Level**
CO1	know about women's health status and reproductive health	**K1, K2**
CO2	gain knowledge on welfare program and policy	**K1, K2, K3**
CO3	illustrate the importance of hygiene	**K1, K2, K3**
CO4	discuss the nutritional status of adolescent, pregnancy and lactation women	**K1, K2, K3**
CO5	understand and discuss about the occupational health hazards of women	**K1, K2, K3**

Course Code	P21BCS22	INDUSTRIAL FERMENTATION PRODUCTS	L	T	P	C
SUPPORTIVE COURSE-II			2	-	-	2

COURSE OUTCOME

Upon completion of this course, the students will be able to		
CO	**Course Outcomes**	**Knowledge Level**
CO1	know about women's health status and reproductive health	**K1, K2**
CO2	gain knowledge on welfare program and policy	**K1, K2, K3**
CO3	illustrate the importance of hygiene	**K1, K2, K3**
CO4	discuss the nutritional status of adolescent, pregnancy and lactation women	**K1, K2, K3**

CO5	understand and discuss about the occupational health hazards of women	**K1, K2, K3**

Course Code	**P21BCT31**	**PHARMACEUTICAL BIOCHEMISTRY**	**L**	**T**	**P**
CORE-XI			**5**	**-**	**- 4**

Course Outcome

Upon completion of this course, the students will be able to

CO	**Course Outcomes**	**Knowledge Level**
CO1	learn the biopharmaceutical properties of drugs	**K1,K2**
CO2	discuss the importance of drug designing	**K1,K2**
CO3	gain knowledge on metabolism of drugs	**K1,K2,K3**
CO4	understand and explain the conjugation pathways of drugs	**K1,K2,K3**
CO5	define the key principles of toxicology and treatment of poisoning	**K1,K2**

Course Code	**P21BCT32**	**MOLECULAR BIOLOGY**	**L**	**T**	**P**	**C**
CORE - XII			**5**	**-**	**-**	**4**

Upon completion of this course, the students will be able to

CO	**Course Outcomes**	**Knowledge Level**
CO1	know the structure of chromatin, and replication	**K1,K2**
CO2	gain knowledge on the transcription and translation process	**K1,K2,K3**
CO3	gain knowledge on genetic code and protein sorting	**K1,K2**
CO4	understand the recombination mechanisms in bacteria	**K1,K2,**
CO5	list and explain the types of mutation	**K1,K2,K3**

Course Code	P21BCT33	PLANT BIOCHEMISTRY	L	T	P	C
CORE - XIII			4	-	-	4

Upon completion of this course, the students will be able to

CO	Course Outcomes	Knowledge Level
CO1	understand the structure, composition and functions of plant cell	K1,K2
CO2	gain in-depth knowledge on the process of photosynthesis	K1,K2
CO3	learn nitrogen fixation and role of secondary Metabolites	K1,K2,K3
CO4	illustrate the role of plant growth regulators and photomorphogenesis.	K1,K2,K3
CO5	know about plant disease resistance mechanism and biochemical changes.	K1,K2,K3

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Course Code	P21BCT34	BASIC MICROBIOLOGY AND GENETICS	L	T	
CORE - XIV			4	-	

Upon completion of this course, the students will be able to

CO	Course Outcomes	Knowledge Level
CO1	list the historical perspective in microbiology and explain the classification of microbes	K1,K2
CO2	know the morphology of microbes	K1,K2,K3
CO3	attain knowledge about the nutritional requirements of microbes and describe their growth pattern	K1,K2
CO4	understand the concepts of Mendelian genetics	K1,K2
CO5	illustrate the concepts of sex determination and linkage	K1,K2,K3

Course Outcome

Course Code	P21BCT35	ENVIRONMENTAL TOXICOLOGY	L	T	P
CORE - XV			4	-	-

Upon completion of this course, the students will be able to		
CO	**Course Outcomes**	**Knowledge Level**
CO1	know the concepts of ecotoxicology and its environmental significance	**K1,K2**
CO2	gain in depth knowledge on Xenobiotic metabolism, Phase I and Phase II reactions	**K1,K2,K3**
CO3	illustrate the concepts in toxicity testing	**K1,K2,K3**
CO4	acquire knowledge on pesticide toxicity and Bio pesticides	**K1,K2,K3**
CO5	understand the concepts of food toxicology occupational toxicology	**K1,K2,K3**

Course Code	P21BCP33	PRACTICAL PLANT BIOCHEMISTRY, MICROBIOLOGY AND MOLECULAR BIOLOGY	L	T	P
CORE –XVI				-	6 C 4

Course Outcome

Upon completion of this course, the students will be able to		
CO	**Course Outcomes**	**Knowledge Level**
CO1	gain knowledge on the estimation of alkaloid, phenol, flavonoid, beta carotene and ascorbic acid content	**K1,K2**
CO2	understand the importance of the sterilization and inoculation techniques	**K1,K2,K3**
CO3	attain indepth knowledge on gene transfer techniques	**K1,K2,K3**

CO4	acquire knowledge on isolation and separation of DNA	**K1,K2**
CO5	know the principles of PCR and electrophoresis	**K1,K2,K3**

Course Code	**P21BCE411**	**CHOICE -I**	**L**	**T**	**P**	**C**
ELECTIVE -I		**BIOPHYSICAL METHODOLOGY**	**4**	**-**	**-**	**4**

Course outcome

Upon completion of this course, the students will be able to		
CO	**Course Outcomes**	**Knowledge Level**
CO1	know the principle and techniques of chromatography.	**K1, K2**
CO2	comprehend about types and applications of centrifuges.	**K1, K2, K3**
CO3	list the types and application of microscopy.	**K1, K2, K3**
CO4	learn about importance of radioactive isotopes.	**K1, K2**
CO5	gain the knowledge on types, principle, instrumentation and applications of spectroscopy.	**K1, K2**

Course Code	**P21BCE412**	**CHOICE - II**	**L**	**T**	**P**	**C**
ELECTIVE- I		**BIOPLASTICS**	**4**	**-**	**-**	**4**

COURSE OUTCOME

Upon completion of this course, the students will be able to		
CO	**Course Outcomes**	**Knowledge Level**
CO1	understand the types of bioplastics and their Impacts on environment	**K1, K2**
CO2	illustrate the applications of bioplastics, biocomposites	**K1, K2,K3**
CO3	attain knowledge about Biomaterials in Medical and Dental applications.	**K1, K2**
CO4	understand about Surface modification of biomaterials for enhancement of biocompatibility	**K1, K2**
CO5	know about the characterization method of biomaterials	**K1,K2,K3**

Course Code	**P21BCE421**	**CHOICE - I**	**L**	**T**	**P**	**C**
ELECTIVE-II		**RESEARCH METHODOLOGY AND BIOSTATISTICS**	**4**	**-**	**-**	**4**

COURSE OUTCOME

Upon completion of this course, the students will be able to		
CO	**Course Outcomes**	**Knowledge Level**
CO1	gain in depth knowledge on the research objectives, methods and significance.	**K1, K2**
CO2	illustrate scientific writing and its characteristics	**K1, K2, K3**
CO3	know the concepts in measures of central tendency and distribution	**K1, K2, K3**
CO4	illustrate the measures of symmetry.	**K1, K2, K3**
CO5	acquire knowledge on tests of statistical significance.	**K1, K2, K3**

Course Code	P21BCE422	CHOICE -II	L	T	P	C
ELECTIVE - II		BIOETHICS, BIOSAFETY AND IPR	4	-	-	4

COURSE OUTCOME

Upon completion of this course, the students will be able to		
CO	**Course Outcomes**	**Knowledge Level**
CO1	discuss the concepts, benefits and Issues in recombinant DNA technology.	**K1, K2**
CO2	gain knowledge on bioethics, transgenic plants and animals.	**K1, K2, K3**
CO3	understand the biosafety levels and guidelines.	**K1, K2, K3**
CO4	list the IPR types and applications.	**K1, K2, K3**
CO5	know the importance of patenting	**K1, K2, K3**

Course Code	P21BCV11	CHARACTERIZATION TECHNIQUES OF NANOMATERIALS	Total Hours	C
SEMESTER - I			30	2

Course Outcome

Upon completion of this course, the students will be able to		
CO	**Course Outcomes**	**Knowledge Level**
CO1	understand the classifications of Nano materials	K1, K2
CO2	know the techniques of spectroscopy	K1, K2, K3
CO3	comprehend the techniques and equipment on X ray techniques	K1, K2, K3
CO4	understand the types and applications of Electron spectroscopy	K1, K2, K3
CO5	knowledge on properties, models and mechanisms of nano materials and its techniques	K1, K2, K3

Course Code	P21BCV41	BIOFERTILIZER	L	T	P	C
SEMESTER - IV			-	-	-	2

Course outcome

Upon completion of this course, the students will be able to		
CO	**Course Outcomes**	**Knowledge Level**
CO1	attain knowledge on different types of fertilizers	**K1,K2**
CO2	know the preparation of algal, fungal and bacterial biofertilizers	**K1,K2,K3**
CO3	gain knowledge about manures and green manuring	**K1,K2**
CO4	know about applications of biofertilizer	**K1,K2,K3**
CO5	understand the techniques in mass production of biofertilizers	**K1,K2**

B.A.ENGLISH

PROGRAMME SPECIFIC OUTCOMES(PSOs)

Atthe endoftheprogramme,the studentswill beable to

PSO	knowandappreciatethe locationofliteraturewithinhumanities, establishconnections across frontiersof disciplines, criticallyengagewith culture,genderandmarginality,becomeacquainted withnarration andrepresentation.
PSO2	distinguish the genres of literature (drama, poetry and prose, fictional and nonfictional)and various approaches to reading **literature** with acuity and insight (e. g. Realism,Romanticism,Naturalism,Impressionism,Expressionism,Modernism,Post-Modernism,Structuralism ,Post-structuralismetal.)
PSO3	demonstratecommandof writtenacademicEnglish,includingtheabilitiestoa) Organize andpresentmaterialinacogentfashion, b)formulate and defend original arguments,c)employeffectivelythe languageof their discipline.
PSO4	appreciate the interconnectedness and interdisciplinary of all knowledge anddemonstrate curiosity, humility and courage reflecting a commitment to reading andcritical inquiry
PSO5	acquirevitalemployabilityskills andemploymentopportunities inthefieldslike teaching,media,journalism,contentwriting,freelancewriting,film,dramaetc.,

COURSE CODE	U21ENT11	AGEOFSHAKESPEAREANDMILTON	L	T	P	C
CORE1			5	-	-	4

CourseOutcomes

At the end of the course,the students will be able to:

K1,K2	CO1	knowthepoetictacticsof theclassicalwriters
K1,K2	CO2	understandthedifferencebetweenOldEnglishandMiddleEnglish
K2, K4	CO3	beawareofthesalient featuresofaphoristicstyle
K2,K6,K3	CO4	discover and to apply the creative power behind art andliterature
K4,K6	C05	criticallyanalyzethelifeand worksof greatwriters andwillbeable to create literarypieces on their own

COURSE CODE	U21ENT12	ADVANCEDENGLISHGRAMMAR	L	T	P	C
COREII			6	-	-	4

CourseOutcome

At the end of the course, the students will be able to:

K1, K2	**CO1**	Acquireknowledgeoflinguisticconventionsforreading,writingand speaking.
K1, K2	**CO2**	Usetargeted grammatical structuresappropriatelyinoralandwrittenproduction.
K5, K4	**CO3**	Analyzethegrammatical structureofsentences withinEnglishtexts.
K5, K1	**CO4**	CommunicateeffectivelyinbothspokenandwrittenStandardEnglish.
K6, K3	**CO5**	Makeinferencesandpredictionsbasedoncomprehensionofatext.

COURSE CODE	U21ENA11	SOCIALHISTORYOFENGLAND	L	T	P	C
ALLIED-I			5	-	-	4

Course Outcomes

At the end of the course the students will be able to:

K1, K2	**CO1**	Provideabasicknowledgeofthepoliticalandsocialhistoryof England.
K1, K2	**CO2**	Understanddifferentmovementsthatoriginatedin England.
K2, K4	**CO3**	Acquaintwiththeliterarymovements,favoredgenresandthe evolutionand developmentof literaryforms.
K2, K6,K3	**CO4**	Familiarizewithterms,practicesandtheoreticalfound ationsof thedisciplines.
K4, K6	**C05**	analyze texts from these cultures; To gain someunderstandingoftheirtraditions,historicalaspectsand values

COURSE CODE	U21ENT21	AGEOFDRYDENANDPOPE	L	T	P	C
COREIII			5	-	-	4

Course Outcomes

Upon completion of this course, the students will be able to

K1, K2	**CO1**	understandthe senseof rationalismand sensibilityofthewriters
K1,K2	**CO2**	recognizeandunderstandthefigurativelanguage
K2,K3	**CO3**	applythe technical nuancesof Neo-Classical dramas
K5,K2 ,K3	**CO4**	comprehend the artistic style of the writers and adopt thestylein writing
K6, K3	**CO5**	appreciatetheintensezealofthewriters andstimulatethecreativityof thestudents

COURSE CODE	U21ENT22	INDIANWRITINGIN ENGLISH	L	T	P	C
CORE-IV			6	-	-	4

Course Outcomes

Upon completion of this course, the students will be able to

K1, K2	**CO1**	understandthesocial,andpoliticalcontroversiesinIndiaduringthecoloni aland post-colonial periods
K1, K2	**CO2**	acquireknowledgeaboutIndianculturalethosand itsuniqueness
K5, K4	**CO3**	evaluatetheuniquecharacteristicsofIndianwritinginEnglish
K5, K1	**CO4**	appreciatethespiritofthe Indianwriterstopreservethenoblevaluesof Indian society
K6, K3	**CO5**	acquireliteraryacumen forfacingthe SET/ NET/TETand othercompetitiveexaminations withconfidence

COURSE CODE	U21ENA22	HISTORYOFENGLISHLITERATURE	L	T	P	C
ALLIED-II			5	-	-	4

Course Outcomes

Upon completion of this course, the students will be able to

K1, K2	**CO1**	Acquaint withfactualcontents.
K1, K2	**CO2**	Strengthentheaestheticsense.
K5, K4	**CO3**	Developacriticalperspectiveinstudents.
K5, K1	**CO4**	Express,tofindout andanalyzetheperiod andtheauthors intheperiodtheybelongto.
K6, K3	**CO5**	Realizethe influenceof writersin creatingnew trends.

COURSE CODE	U21ENT31	AGEOFWORDSWORTH	L	T	P	C
COREV			5	-	-	4

Course Outcomes

Upon completion of this course, the students will be able to

K1,K2	CO1	Understand thesenseof rationalismand sensibilityof thewriters
K1,K2	CO2	recognizeandunderstandthefigurativelanguage
K2,K3	CO3	applythe technicalnuances ofdramas
K5,K2,K3	CO4	comprehendthe artisticstyleofthe writers andadoptthestyleinwriting
K6,K3	CO5	appreciate the intense zeal of the writers and stimulate the creativityofthe students

COURSE CODE	U21ENA33	LITERARYGENRESANDTERMS	L	T	P	C
ALLIED-III			5	-	-	4

Course Outcomes

Upon completion of this course, the students will be able to

K6,K2, K4	CO1	instigatetohaveaneminentcraveson Literature
K2,K5	CO2	developan understandingof the formsof literature
K6,K5	CO3	familiarizewiththetermsof Literature
K3,K2, K5	CO4	get a comprehensive knowledge of the literary works produced all over theworldindifferent languagesand differentgenres
K5,K6	CO5	Developtheir skillsand understands thegreatnessofLiterature.

COURSE CODE	U21ENA33	LITERARYGENRESANDTERMS	L	T	P	C
ALLIED-III			5	-	-	4

Course Outcomes

Upon completion of this course, the students will be able to

K6,K2, K4	CO1	instigatetohaveaneminentcraveson Literature
K2,K5	CO2	developan understandingof the formsof literature
K6,K5	CO3	familiarizewiththetermsof Literature
K3,K2, K5	CO4	get a comprehensive knowledge of the literary works produced alloverthe world indifferent languagesand differentgenres
K5,K6	CO5	Develop theirskills and understands thegreatnessofLiterature.

COURSE CODE	U21ENE311	CHOICE-I	L	T	P	C
ELECTIVE-I		JOURNALISMANDMASS COMMUNICATION	4	-	-	3

Course Outcomes

Upon completion of this course, the students will be able to

K1,K2,K4	CO1	Demonstrate practicalskill sofvarioustype sofmediawriting,reviews,reports,
K3,K4,K5	CO2	Makeprogrammeand discussions.
K2,K4,K3	CO3	demonstratetheirfamiliaritywiththenew media, its techniques,practicesof socialmedia and hypermedia
K1,K2,K3,K4	CO4	Criticallyanalyzehowthemediareflects,represents andinfluences the contemporaryworld.
K4,K5,K6	CO5	Demonstrate some awareness of the literary influence and literaryhistory.

COURSE CODE	U21ENE312	CHOICE-II	L	T	P	C
ELECTIVEI		TRAVELWRITING	4	-	-	3

Course Outcomes

Upon completion of this course, the students will be able to

K1,K2,K4	CO1	Toinvestigate environmental (in)justice,andecologicalcrisisthrough an excitingvarietyof Travel literarytexts.
K3,K4,K5	CO2	toenjoyreading, andwho wantstothinkabout thecultural, Artistic, and philosophical issues involved in human beings'relationshipswith thelivingthings around them.
K2,K4,K3	CO3	Tocomparetravel literarytextswith attentionto theircontexts.
K1,K2,K3,K4	CO4	To consider issues of environmentalism and sustain abilityfromcultural,historical,and ethicalperspectives.
K4,K5,K6	CO5	To recognize how the present-day landscapes and cultureshavebeenshapedbyreadingandpracticingTravelWriting.

COURSE CODE	U21ENT41	AMERICANLITERATURE	L	T	P	C
CORE-VI			4	-	-	4

Course Outcomes

Upon completion of this course, the students will be able to

K6,K2,K4	**CO1**	learntheliteraryworks&cultureof theAmericans
K2, K5	**CO2**	understandtheliteraryactivitiesofthewritersofAmericandescent
K6,K5	**CO3**	gainaperception ofliterarytrends set bytheAmericanwriters
K3,K2,K5	**CO4**	understandthecharacter,flavorandethosoftheAmericanliterature
K5,K6	**CO5**	appreciate the positiveapproachesof theAmerican Writers towardsequality andemancipation andenable themtopracticeand tobe aninstructor.

COURSE CODE	U21ENT42	AGEOFTENNYSON	L	T	P	C
CORE-VII			4	-	-	4

Course Outcomes

Upon completion of this course, the students will be able to

K1,K2	**CO1**	understand the sense of rationalism and sensibility of thewriters
K1,K2	**CO2**	Recognize andunderstandthe figurativelanguage
K2,K3	**CO3**	applythe technicalnuances ofdramas
K5,K2,K3	**CO4**	comprehend the artistic style of the writers and adopt thestylein writing
K6, K3	**CO5**	Appreciatetheintensezeal ofthewriters andstimulatethe creativityof thestudents

COURSE CODE	U21ENA44	TRANSLATION:BASICCONCEPTSANDPRACTICE	L	T	P	C
ALLIED-IV			4	-	-	4

Course Outcomes

Upon completion of this course, the students will be able to

K6, K2,K4	**CO1**	Analyzeandevaluatetheworksforcontent,style,thestructureofIndian writers.
K2, K5	**CO2**	haveabroadknowledge oftheregionalIndianwriters, Understand the variety of regional writings andunderstandtheculturaldiversityreflectedinthem.
K6,K5	**CO3**	evaluatetheuniquecharacteristicsofIndianwritinginEnglish
K3,K2,K5	**CO4**	appreciate the spirit of the Indian writers to preserve thenoblevalues ofIndian society
K5,K6	**CO5**	identifyand describetheunique literarytendencies EvidentinthedifferenttranslatedtextsfromthedifferentregionsofIndia.

COURSE CODE	U21ENE421	CHOICE-I	L	T	P	C
ELECTIVEII		COMPARATIVELITERATURE	3	-	-	3

Course Outcomes

Upon completion of this course, the students will be able to

K1,K2	CO1	equip the students with literary concepts with specialreferenceto ComparativeLiterature
K1,K2	CO2	helpthemprepareforvarious competitiveexams
K2,K3	CO3	keep and updates them with the increasing demand forEnglish
K5,K2,K3	CO4	developtheiroverallconfidence andpersonality
K6,K3	CO5	expand the knowledge of the students about thedevelopmentofComparative Literature

COURSE CODE	U21ENE422	CHOICE-II	L	T	P	C
ELECTIVEII		CHILDREN'SLITERATURE	3	-	-	3

Course Outcomes

Upon completion of this course, the students will be able to

K1,K2,K4	CO1	displayworkingknowledgeof classicand contemporarychildren'sliterature
K3,K4,K5	CO2	identify and describe distinct literary characteristics of literature,including techniques ofillustrationand formatof children'sbooks
K2,K4,K3	CO3	Analyzeliteraryworks fromvariousgenresfor theirstructureandmeaning, usingcorrect terminology
K1,K2,K3,K4	CO4	writeanalyticallyabout children'sliteratureusingMLAguidelines
K4,K5,K6	CO5	effectivelycommunicate ideasrelatedto theliteraryworksduringclassandgroup activities

Outcome Mapping

CO/ PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO1	S	S	S	S	S	S	S	S	S	S	S	M
CO2	S	S	S	S	M	S	S	S	S	M	S	M
CO3	S	S	S	S	M	S	S	S	S	S	M	M
CO4	S	S	S	S	M	S	S	S	S	M	M	S
CO5	S	S	S	S	S	S	S	S	S	S	M	S

StronglyCorrelating(S) - 3Marks

ModeratelyCorrelating (M) - 2marks

WeaklyCorrelating(W) - 1Mark

NoCorrelation(N) - 0mark

COURSE CODE	**U21ENT51**	**INTRODUCTION TO ENGLISHLANGUAGEANDPHONETICS**	**L**	**T**	**P**	**C**
COREVIII			**5**	**-**	**-**	**4**

Course Outcomes

Upon completion of this course, the students will be able to

K6,K2, K4	**CO1**	commentonlinguisticchoicesinwritingforspecificaudiences,purposes,contexts and cultures
K2, K5	**CO2**	develop an understanding of language issues and debates, andrespond criticallyto theseissues
K6,K5	**CO3**	analyzethetheoriesandremembertheconceptsinspeechsounds
K3,K2,K5	**CO4**	comprehendandevaluatevarioustheories,conceptsoflanguageandlinguistics
K5,K6	**CO5**	developtheirskills asinterpretersand producersofmeaning

COURSE CODE	U21ENT52	TWENTIETH CENTURY BRITISHLITERATURE	L	T	P	C
COREIX			5	-	-	4

Course Outcomes

Upon completion of this course, the students will be able to

K6,K2,K4	CO1	strengthen the knowledge of Twentieth-CenturyWriters
K2,K5	CO2	familiarizewiththecontemporarywriters
K6,K5	CO3	developcriticalperspective
K3,K2,K5	CO4	analyzetheperiods ofthe authors
K5,K6	CO5	acquaintwiththeimportantaspectsandmovementsof the respectiveperiod

COURSE CODE	U21ENT53	WOMEN'SWRITINGINENGLISH	L	T	P	C
COREX			5	-	-	4

Course Outcomes

Upon completion of this course, the students will be able to

K1,K2	**CO1**	learnhowand onwhatgroundswomen'swritingscanbeconsidered as a separate genre.
K1,K2	**CO2**	Readandunderstand canonicaltextswrittenbyWomenwritersacross different ages.
K3,K4	**CO3**	Differentiate between sex and gender and how the latter isasocial construction.
K4,K5	**CO4**	beawareoftheissuesandconcernsofthewomenwriters of the developed, developing and under-developedcountries
K3,K6	**CO5**	demonstrate awareness of cultural and interculturalconcerns relatingto women'swriting

COURSE CODE	U21ENT54	INTRODUCTION TO LITERARYCRITICISM	L	T	P	C
COREXI			5	-	-	4

Course Outcomes

Upon completion of this course, the students will be able to

K6,K1,K2	**CO1**	provide a critical understanding of the developments inliterarycriticism from thebeginningto the end ofthe 19th century
K2,K1,K3	**CO2**	Familiarizeselectedtexts/criticswhicharepreprescribedforthe detailed study whose contribution to this areaconstitutesasignificant benchmarkin eachera.
K6,K1,K2,K4	**CO3**	provide a conceptual framework for developing anunderstandingofthefunctionandpracticeoftraditional modesofliterarycriticism
K3,K4,K5,K6	**CO4**	Learn thehistoryof literarycriticism and various literarytheories. Apply critical and technical theory andvocabulary to describe and analyze, and formulate anargument about literaryand othertexts.
K5,K4,K5,K6	**CO5**	Think about the non-fixity of the meaning of literacy texts.Develop skill in applying various literary theories ininterpretingaspecific text.

COURSE CODE	U21ENT55	SHAKESPEARE	L	T	P	C
COREXII			5	-	-	4

Course Outcomes

Upon completion of this course, the students will be able to

K1,K2,K4	**CO1**	understandthemagnitudeof theShakespeareanworld
K3,K4,K5	**CO2**	introspectthecomplexitiesofShakespeare‘splays
K2,K4,K3	**CO3**	attainacomprehensiveknowledgeoftheplaysofShakespeare
K1,K2,K3,K4	**CO4**	analyzethestylisticfeaturesofShakespeare
K4,K5,K6	**CO5**	relishthesublimityof Shakespearean languageandexpressionthrough creativewriting

COURSE CODE	U21ENE531	MARGINALWRITING	L	T	P	C
ELECTIVEIII			3	-	-	3

Course Outcomes

Upon completion of this course, the students will be able to

K1,K2,K4	**CO1**	understand the concept of Marginal Writings with apositiveperspective
K3,K4,K5	**CO2**	gaininsightinto thekeyideasof MarginalWritings
K2,K4,K3	**CO3**	recognize Marginal Writings as a social and culturalconstruct
K1,K2,K3,K4	**CO4**	analyzesocietalrepresentationsofMarginalWritingsatmoral, social, and politicallevels
K4,K5,K6	**CO5**	recognizecontributionsofMarginalWritingsintheliteraryworld

COURSE CODE	U21ENS53	WRITINGFORTHEWEB	L	T	P	C
SKILLBASEDIII			2	-	-	2

Course Outcomes

Upon completion of this course, the students will be able to

K2,K3,K4	**CO1**	demonstratetheirabilitytoobserveevents,gather information,writenewsreports andnews releasesandreporton events
K3,K2,K5	**CO2**	Gainfirst-handexperienceindesigningtheNews Letters.
K4,K2,K3	**CO3**	understandthedifferencebetween communicationandmedia theoriesandwouldhavegainedtheexpertisetohandlethisareainthei r profession
K5,K4,K6	**CO4**	graspthecomplexrelationshipbetweencommunication/media theoriesandadiverseset ofindividual,social,andprofessionalpractices
K6,K2,K3	**CO5**	knowtheprocesses andpracticeofwritingforthe mediaandtohaveplacement in Media

COURSE CODE	U21ENT61	INTRODUCTIONTO WORLDCLASSICS	L	T	P	C
COREXIII			5	-	-	4

Course Outcomes

Upon completion of this course, the students will be able to

K1,K2,K4	**CO1**	introducethe BackgroundofWorldliterature
K3,K4,K5	**CO2**	inculcateinterests tofocus onContemporaryliterature
K2,K4,K3	**CO3**	deepen the knowledge of contemporary world culturethroughliterature
K1,K2,K3,K4	**CO4**	enhancetheaestheticsensethrough admiringthebeautyof life and literature
K4,K5,K6	**CO5**	ignitethemindstocomparethegloryofIndianWritings

COURSE CODE	U21ENT62	NEWLITERATURESINENGLISH	L	T	P	C
COREXIV			5	-	-	4

Course Outcomes

Upon completion of this course, the students will be able to

K2, K1	**CO1**	PossesstheknowledgeofPost-colonialLiterature.
K3,K4	**CO2**	Understandtheideasofcolonizedwriters.
K4,K2	**CO3**	Figureouttheimportance ofknowingPostcolonialtheory.
K5,K4	**CO4**	Demonstratethenuances oftheauthorsofthedifferentregionandapplyin theiranalysis.
K6,K5	**CO5**	Gathertheideasofdifferentlandscapes andtheculture.

B.COM WITH COMPUTERAPPLICATION

Programme Specific Outcomes(PSO)

After the successful completion of **B.Com(ComputerApplications)** Program, the studentsareexpected to	
PSO1	Knowand applythe various business management andcomputer application conceptsto solvethe real-world problems.
PSO2	Acquirethe knowledge onobject-based computer applications invarious businessfields.
PSO3	Solvethe business applicationsrelated issuesofusingoracleand objectorientedprogramminglanguages.
PSO4	Analyzethe reale-businessproblems byusingthe differentapplicationsofprocedure-orientedlanguagePrograms.
PSO5	enrich the practical knowledge on applications of accounting and programminglanguagesin business ventures.

COURSE CODE	**U21CCT11**	**FINANCIALACCOUNTING-I**	**L**	**T**	**P**	**C**
COREI			**6**	**-**	**-**	**4**

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	recallAccountingConceptsandConventionsanduseAccountingrulestorecord business transactionsinthe formofJournal, Ledger,subsidiarybooksandpreparationofTrialBalance.	K1
2	understandthestepsinvolvedinlocatingerrorsandpreparethemto Understandthe preparationoffinal accountsforsole traders.	K2
3	outlinetheconceptsofBillsofexchange,AverageduedateandAccountCurrent	K2
4	Examinethe conceptsof consignment andjointventure.	K4
5	analyze the bank reconciliation statement, Receipts and payments, Incomeandexpenditureand Balancesheet and accountingfor professionalstoenhancethe knowledge.	K4
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create		

COURSE CODE	U21CCA11	BUSINESSECONOMICS	L	T	P	C
ALLIED-I			5	-	-	4

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	understand the Business systems,the reason for existence ofFirms,consumer preferenceand applicationof utilityanalysisandknowingroleof businesseconomist.	K1,K2,K3
2	understand and estimate production function oductionand forms of production function andlaws	K1,K2,K3
3	understandbasicconcepts of demandand supplyand its determinants,thedeterminant sofelasticityand applications ofdifferentforecasting techniques.	K1,K2,K3
4	Understand costfunction, Analysiscostand conceptso frelevantcostsand revenues**.**	K1,K2,K3
5	Compare andcontrast fourbasic markettypes,conceptsof monopolistic and oligopoly competition and its effect of non-pricefactors on products and services.	K1,K2,K3
	K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create	

COURSE CODE	U21CCT21	FINANCIALACCOUNTING-II	L	T	P	C
CORE-III			5	-	-	4

Courseoutcomes: At theend ofthe course, students wouldbeableto:

1	describetheconcepts based ondepreciation and its methods in books faccounts.	K1
2	Outlineab outthenatureof InvestmentandRoyalexcludingSublease.	K2
3	Identify the essentialcharacteristicsofsingle entrysystem.	K3
4	Applythe basicconcept sofdepartmenala ndbranchaccounting.	K4
5	Familiarize theprocedurerelating tohirepurchase andinstallmentinbooksof accounts	K2
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6** -Create		

COURSE CODE	U21CCP22	PROGRAMMINGIN C–LAB	L	T	P	C
COREIV			-	-	5	4

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	Explainabout Cprogramminglanguages.	K1,K2,K3
2	Designthe solution forthegivenproblem.	K1,K2,K3
3	Writethe code forthe givenproblem.	K1,K2,K3
4	Understand theuseofarraysand pointersinC.	K1,K2,K3
5	writetheCprogramforsimpleapplicationsofreal life problem usingstructuresandunions.	K1,K2,K3
K1-Remembering**K2**–Understanding **K3**–Applying		

COURSE CODE	U21CCA22	BUSINESSCOMMUNICATION	L	T	P	C
ALLIED– II			5	-	-	4

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	Outlinethe importance ofeffectivebusines communication	K2
2	Understand theintricaciesof respondingto businessrelatedqueries	K2
3	Categorize effective correspondence withbanks,insuranceandagencies	K3
4	Examine effective responseto company secretarialcorrespondence	K4
5	Analyze newinnovative andeffective ideasforbusiness communication	K4
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6** -Create		

COURSE CODE	U21CCT31	BUSINESSSTATISTICS	L	T	P	C
CORE–V			5	-	-	4

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	acquireknowledgeabout averagestobeusedin BusinessResearch	K1,K2,K3
2	Gainknowledge aboutStandard Deviation,Skewness.	K1,K2,K3
3	Gainknowledge about the applicationof Correlationand Regression	K1,K2,K3
4	get anindept hknowledgeabout Index Numbers	K1,K2,K3
5	Acquire knowledgein Measuresof TrendanditsapplicationinBusinessResearch.	K1,K2,K3
K1-Remembering**K2–**Understanding**K3–**Applying		

COURSE CODE	U21CCA33	VISUALBASICPROGRAMMINGLAB	L	T	P	C
ALLIEDIII			-	-	5	4

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	Demonstrate proficiency nprogram design.	K1,K2,K3
2	design,create,build,and debugVisualBasicapplications.	K1,K2,K3
3	exploreVisualBasic,,sIntegratedDevelopmentEnvironment (IDE).	K1,K2,K3
4	Writ and applyloop structuresto performrepetitivetasks.	K1,K2,K3
5	writeand applyprocedures, sub-procedures,andfunctionsto create manageablecode.	K1,K2,K3
K1-Remembering**K2–**Understanding **K3–**Applying		

20.76/5=4.15

COURSE CODE	U21CCE311	CHOICE-I	L	T	P	C
ELECTIVE –I		COMPUTERNETWORKS	4	-	-	3

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	describethe functions of eachlayerinOSIand TCP/IPmodel.	K1,K2,K3
2	Explainthe functionsof Applicationlayerand Presentation Layerparadigmsand Protocols	K1,K2,K3
3	Describethe Sessionlayer designissues andTransportlayer services.	K1,K2,K3
4	Classify therouting protocolsand analyzehowto assigntheIP Addresses forthe givennetwork.	K1,K2,K3
5	describethe functionsof datalinklayerandexplain the protocols.	K1,K2,K3
K1-Remembering**K2–**Understanding**K3–**Applying		

COURSE CODE	U21CCE312	CHOICE-II	L	T	P	C
ELECTIVE –I		TRAININGANDDEVELOPMENT	4	-	-	3

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	analysethe trainingstrategies adoptedbycompanies in real situations	K1,K2,K3
2	Identifytraining needsof anindividual byconducting TrainingNeed Analysis	K1,K2,K3
3	Differentiate betweenthe applicabilityof varioustraining strategiesandselect astrategybasedupon the result ofTNA	K1,K2,K3
4	developa traininganddevelopment module	K1,K2,K3
5	evaluate and assessthecostand benefitsof atrainingand development programme.	K1,K2,K3
K1-Remembering**K2–**Understanding**K3–**Applying		

COURSE CODE	U21CCE313	CHOICE-III	L	T	P	C
ELECTIVE –I		BUSINESSINTELLIGENCESTRATEGIES ANDPROCESS	4	-	-	3

CourseOutcomes

Uponthecompletionofthe course,thestudents willbe able to

1	understandtheconceptualframeworkofbusiness intelligence	K1,K2,K3
2	formulate strategies in relation to business performancemeasurement	K1,K2,K3
3	appreciatetheimportanceof textandwebmining data	K1,K2,K3
4	analyze andapplyvariousbusinessintelligence methods	K1,K2,K3
5	tackletheissuesinbusinessintelligence	K1,K2,K3

COURSE CODE	U21CSS31	SBE-I	L	T	P	C
SBE-1		COMPUTERSKILLSFOROFFICE MANAGEMENT	2	-	-	2

Courseoutcome: Attheend ofthe course,students would beable to:

Number	Courseout come	KnowledgeLevel (AccordingtoBloom'sTaxonomy)
CO1	Recallthe Fundamentals ofofficeautomationand MSwordp reparation	K1,K2,K3
CO2	IdentifythecomponentsofMicrosoft Word	K1,K2,K3
CO3	ExplaintheprocedureonMicrosoftExcelshort-cutkeys	K1,K2,K3
CO4	ExplaintheprocedureonMicrosoftAccessshort-cutkeys	K1,K2,K3
CO5	IdentifythecomponentsofMicrosoftAccess	K1,K2,K3

K1-Remembering **K2**–Understanding **K3**–Applying

COURSE CODE	U21CCT41	COSTACCOUNTING	L	T	P	C
CORE-VI			4	-	-	4

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	recallvariousconceptsof costingandcostingmethods	K1
2	analyzethevarious elementsofcosting	K4
3	explainthelabourwage paymentsystem	K2
4	outlinethecost underprocess costingsystem	K2
5	Examineabout operationalcosting,contract costingandReconciliationofCost andFinancial Statements.	K4
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6** -Create		

COURSE CODE	U21CCP43	RELATIONALDATABASEMANAGEMENT SYSTEMLAB	L	T	P	C
COREVII			-	-	4	4

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	understandthebasicconceptsofdatasystem,operationaldataandstora gestructures of thedata	K1,K2,K3
2	Understand therelation approachand itskeyrelationalgebra.	K1,K2,K3
3	Awareaboutem beddedSQL.	K1,K2,K3
4	Gainknowledge onhierarchical approach forknowingthedetaileddescriptionof thedata.	K1,K2,K3
5	Awareabout mbeddedSQL.	K1,K2,K3
K1-Remembering**K2**–Understanding **K3**–Applying		

COURSE CODE	U21CCA44	BUSINESSMATHEMATICS	L	T	P	C
ALLIED– IV			4	-	-	4

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	understandthenumbersystem	K1,K2,K3
2	understandthe set theory	K1,K2,K3
3	knowthecalculationsof indicesandsurds	K1,K2,K3
4	understand the calculations of interest , annuities and depreciation	K1,K2,K3
5	knowtheapplicationsof probability distributionsandmatrices	K1,K2,K3
K1-Remembering**K2–**Understanding**K3–**Applying		

COURSE CODE	U21CCE421	CHOICE– I	L	T	P	C
ELECTIVE –II		ELEMENTSOFE-COMMERCE	3	-	-	3

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	understandbasic conceptsone-commerce	K1,K2,K3
2	Understand variousmethodson Architecturalaspectofe-Commerce**.**	K1,K2,K3
3	gainessentialknowledge on securityaspectofe-commerce	K1,K2,K3
4	gain applicationknowledgeon ecommerceinbusiness.	K1,K2,K3
5	gainconceptualknowledgeonmultimediaine-commerce	K1,K2,K3
K1-Remembering**K2–**Understanding**K3–**Applying		

COURSE CODE	U21CCE422	CHOICE– II	L	T	P	C
ELECTIVE –II		DIGITALMARKETING	3	-	-	3

Courseoutcomes: At theendofthecourse, studentswould beable to:

1	identify and assess the impact of digital technology intransforming the business environment and also the customerjourney;	K1,K2,K3
2	explainthe waymarketers think, conceptualize, testcontinuously tooptimize theirproduc searchondigitalplatforms;	K1,K2,K3
3	Illustratethe measurement ofeffectiveness ofadigitalmarketing campaign;	K1,K2,K3
4	Demonstrate theirskills indigitalmarketingtoolssuchasSEO, Socialmedia,andBloggingfor engagingthedigitalgeneration;	K1,K2,K3
5	understandtheconceptofAIinDigital Marketing;	K1,K2,K3
K1-Remembering**K2**–Understanding**K3**–Applying		

COURSE CODE	U21CCE423	CHOICE– III	L	T	P	C
ELECTIVE –II		INTERNATIONALLOGISTICS MANAGEMENT	3	-	-	3

CourseOutcomes:

Atthe endofthe course,students would beable to:

1	understandtheknowledgeabout thefundamentalsandbasic conceptsof businesslogisticsand supplychain	K1,K2,K3
2	Enlightenwith theknowledge freight structureandpracticesin shipping	K1,K2,K3
3	master over the procedure and principles of ocean transportation	K1,K2,K3
4	understand theapplicabilityof inventorymanagement and warehousingFunctions	K1,K2,K3
5	applythe strategies fortransportation and packaging	K1,K2,K3

COURSE CODE	U21MSS42		L	T	P	C
SBE-II		MANAGERIALSKILLS	2	-	-	2

Courseoutcome: Attheend ofthe course,students wouldbeable to:

Number	Courseoutcome	KnowledgeLevel (AccordingtoBloom'sTaxonomy)
CO1	analysethetrainingstrategiesinmanagerialskills	K1,K2,K3
CO2	identifytrainingneeds oneffectivetime management	K1,K2,K3
CO3	Handson experience indecision makingapproachesand strategies.	K1,K2,K3
CO4	Developatrainingon teambuilding approachandleadership skills	K1,K2,K3
CO5	Evaluation ofconflict management and remediestorelief on	K1,K2,K3

K1-Remembering**K2–**Understanding**K3–**Applying

COURSE CODE	U21CCN42	COMMERCEPRACTICAL	L	T	P	C
NME-II			-	-	2	2

CourseOutcomes

Uponthecompletionofthe course,thestudents willbe able to

1	Star uptheir ownBusiness.	K1,K2,K3
2	thorough knowledge of finance and commerce. and financewit thepractical exposure helps the students to stand in organizationinthefieldoffinanceand**commerce**	K1,K2,K3
3	acquirepracticalknowledgeon writingcheques	K1,K2,K3
4	Acquiretheskillsrequired forpreparation ofagend aandminutesofmeeting	K1,K2,K3
5	demonstrateon takingLIC Policy	K1,K2,K3

COURSE CODE	U21CCT51	MANAGEMENTACCOUNTING	L	T	P	C
CORE–VIII			5	-	-	4

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	Outlinethe variousconceptsrelating tomanagementaccounting	K2
2	Analyze financial statements usingratioanalysis	K4
3	Evaluat etheworking capital managementofcompanies	K5
4	Comparevarious alternatives usingmarginal costingand decisionmaking	K2
5	Analyzenewbudgetand budgetarycontrol fororganizations	K4
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create		

COURSE CODE	U21CCT52	AUDITING	L	T	P	C
COREIX			5	-	-	4

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	Definethe important conceptandrules relatingtoauditing	K1
2	Outline thetechniques andapplicabilit ofinternalaudit	K2
3	Analyzethevaluation ofassetsand liabilitiesinbusiness	K4
4	Analyzetheaccounts andauditing thejoint stockcompanies	K4
5	Examineabout investigation andauditing ofcomputerized accounts	K4
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**–Create		

COURSE CODE	U21CCT53	INCOMETAXLAWAND PRACTICE	L	T	P	C
COREX			5	-	-	4

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	Outline thevarious terminologies relatedtoincometax	K1
2	Understand themethodof calculatingand levyingtax	K2
3	Applythe varioustaxlawsand available provisionsin taxcomputations	K3
4	Evaluate thesetwo offandcarry forwardof losseswhile calculating personalincome	K5
5	Analyze self-assessment ofincomeand taxcomputation	K4
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6** –Create		

COURSE CODE	U21CCP54	MOBILEAPPLICATIONS–LAB	L	T	P	C
CORE–XI			-	-	5	4

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	Demonstrate theandroid features andcreate,developusingandroid.	K1,K2,K3
2	Demonstrate andUnderstanding anatomyofan Androidapplication	K1,K2,K3
3	applythe android geolocationbasedservices	K1,K2,K3
4	Applythe UIToolkit interface.	K1,K2,K3
5	demonstratethe Linux securityand implementADLinterface	K1,K2,K3
K1-Remembering**K2**–Understanding **K3**–Applying		

COURSE CODE	U21CCP55	PROGRAMMINGIN C++-LAB	L	T	P	C
CORE– XII			-	-	5	4

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	Compare thedifferent typesof languagesand findthe importance ofobject-oriented programminglanguage	K1,K2,K3
2	knowand understand the C++statements and motivatethe studentsto makeuse of thestatements	K1,K2,K3
3	Identify theclass structureand develop theprogram.	K1,K2,K3
4	Developthe program byapplyingthe concept of OOPs	K1,K2,K3
5	applythedata fileoperation techniqueandevaluatethe programin apractical manner.	K1,K2,K3
K1-Remembering**K2–**Understanding **K3–**Applying		

COURSE CODE	U21CCE531	CHOICE-I	L	T	P	C
ELECTIVE –III		FUNDAMENTALSOFINVESTMENT	3	-	-	3

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	Listtheroleand functionofthe InvestmentManagement	K1,K2,K3
2	demonstratean awarenessofthe fundamental analysis	K1,K2,K3
3	Evaluate andcreatestrategies tounderstand technicalanalysis.	K1,K2,K3
4	developandconstructPortfolio	K1,K2,K3
5	Describethe differentcomponents ofinvestment managementandits implicationinrealtimebusinesslife	K1,K2,K3

COURSE CODE	U21CCE532	CHOICE-II	L	T	P	C
ELECTIVE –III		ARTIFICIALINTELLIGENCEIN BUSINESS	3	-	-	3

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	identifyhow theAIisbeing leveragedbystart-ups asasuccesstool	K1,K2,K3
2	analyseand interpretthe applicabilityof AIin HRfunctions	K1,K2,K3
3	Explain howalgorithmsis changingtheboard roomlandscape	K1,K2,K3
4	discuss thecustomer services provided byvariousbanks usingAI	K1,K2,K3
5	Demonstrate theroleof AIin transformingthe retailsector	K1,K2,K3
K1-Remembering**K2**–Understanding**K3**–Applying		

COURSE CODE	U21CCE533	CHOICE-III	L	T	P	C
ELECTIVE – III		E-CUSTOMERRELATIONSHIP MANAGEMENT	3	-	-	3

CourseOutcomes:

Afterthesuccessfulcompletionofthecourse,the studentswillbeable to:

1	comprehendthe conceptsrelatingtoCustomerRelationship managementpractices	K1,K2,K3
2	analyzeCustomerInformationDatabasetounderstandthecus tomer behaviour	K1,K2,K3
3	Graspanideaof customer relationship managementprocess	K1,K2,K3
4	appreciate the various Models of Customer Relationship Management	K1,K2,K3
5	understandthee-CRMsolutions forbetter customerrelationship management	K1,K2,K3

COURSE CODE	U21CCS53	DESKTOPPUBLISHINGLAB(DTP)	L	T	P	C
SkillBasedElective-I			-	-	2	2

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	Identify theemerging technologyin designing.	K1,K2,K3
2	Understandof designing anddevelopment tool.	K1,K2,K3
3	Adoptrapidly changing multimediatechnology.	K1,K2,K3
4	Apply effectivelythe techniquesin Photoshop.	K1,K2,K3
5	Master indigital designgraphic toolforearnings.	K1,K2,K3
K1-Remembering**K2–**Understanding **K3–**Applying		

COURSE CODE	U21CCT61	CORPORATEACCOUNTING	L	T	P	C
CORE–XIII			4	-	-	4

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	developtheskill ofpreparingen triesforissueof shares	K1,K2,K3
2	knowtheaccountingentriesfor underwritingof sharesand redemptionof preference shares	K1,K2,K3
3	Knowledge incalculationand valuationofshares andgoodwillof companies	K1,K2,K3
4	knowtheprovisionsof acquisitionofthe business	K1,K2,K3
5	Gainthe knowledgeininternaland externalreconstructionin companies	K1,K2,K3
K1-Remembering**K2–**Understanding**K3–**Applying		

COURSE CODE	U21CCT62	BUSINESSTAXATION	L	T	P	C
CORE–XIV			5	-	-	4

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	Recallvarious conceptsrelating toIndirecttaxregimeinIndia	K1
2	Analyzethe conceptand applicabilityofGSTinbusinesses	K4
3	Comparethe GSTregime withotherindirecttax lawspriortoit	K2
4	Illustrate GSTsystem inownbusiness andotherprototypes	K2
5	Examinethe customlawand relateddutiesandtaxes	K4
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6** -Create		

COURSE CODE	U21CCT63	OPERATINGSYSTEM	L	T	P	C
CORE–XV			5	-	-	4

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	describetheimportant computersystemresourcesandtheroleof operating systeminthe irmanagement policiesandalgorithms.	K1,K2,K3
2	understandtheprocess managementpolicies and schedulingof processes byCPU	K1,K2,K3
3	evaluate the requirement for process synchronization and coordinationhandled byoperatingsystem	K1,K2,K3
4	describeandanalyzethe memory management anditsallocation policies.	K1,K2,K3
5	identifyuse andevaluate thestorage managementpolicies withrespecttodifferent storagemanagement technologies.	K1,K2,K3
K1-Remembering**K2**–Understanding **K3**–Applying		

COURSE CODE	U21CCT64	FINANCIALMANAGEMENT	L	T	P	C
COREXVI			4	-	-	4

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	Outlinevarious conceptsrelatingto finance	K2
2	Listthevarious techniques offinancialplanning	K2
3	Analyze various ourcesandformsoffinance	K4
4	Examine thevarious dimensionsof capitalmarket andtheircomponents	K4
5	Listthecapitalization conceptand relatedtheories fordecisionmaking	K4
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create		

COURSE CODE	U21CCP66	WEBTECHNOLOGY–LAB–PRACTICAL	L	T	P	C
COREXVII			-	-	5	4

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	writePHP scriptsto handleHTMLforms.	K1,K2,K3
2	Write regularexpressions includingmodifiers,operators,and metacharacters.	K1,K2,K3
3	Create PHPprogramsthat usevariousPHP libraryfunctions,and that manipulatefilesand directories.	K1,K2,K3
4	analyze andsolve various databasetasks usingthe PHP and MySQLlanguage.	K1,K2,K3
5	analyze and solvecommonWeb application tasksbywritingPHP programs.	K1,K2,K3
K1-Remembering**K2–**Understanding **K3–**Applying		

COURSE CODE	U21CCE641	CHOICE-I	L	T	P	C
ELECTIVE – IV		BUSINESSLAW	3	-	-	3

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	Assessthevarious elementsrelated businesslawandcontract	K5
2	Interpret differenttypeof contractanditsfeatures	K2
3	explainabout theagencysystem related tocreation and terminationofagency	K5
4	Comparebetweenrights anddutiesof indemnity,guarantee	K5
5	Examinethe istinctbetween saleandagreement tosellanditsfeatures	K4
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6** –Create		

COURSE CODE	U21CCE642	CHOICE-II	L	T	P	C
ELECTIVE – IV		CORPORATEGOVERNANCE	3	-	-	3

Courseoutcomes: At theend ofthe course, students wouldbeable to:

1	Explaintheconcept andimportanceof corporategovernance inabusinesssetup;	K1,K2,K3
2	Explainthe conceptof corporategovernance inorganisationsand itsessence formanagement.	K1,K2,K3
3	Analysethe roleofboard ofdirectors andshareholder sincorporatemanagement.	K1,K2,K3
4	Assess theproblems incorporate governanceon thebasisof majorcorporate governancefailures.	K1,K2,K3
5	Describe corporate governance frameworkinIndia.	K1,K2,K3
	K1-Remembering**K2**–Understanding**K3**–Applying	

COURSE CODE	U21CCE643	CHOICE-III	L	T	P	C
ELECTIVE – IV		INTERNATIONALFINANCIAL REPORTINGSTANDARDS	3	-	-	3

CourseOutcomes

Uponthecompletionofthecourse, thestudents will beable to

1	Explainthe conceptof Conversionof finalaccountstoIFRS	K1,K2,K3
2	makePracticalAnalysis ofpublished financial statementsforat-least2 types of stakeholders	K1,K2,K3
3	makePresentationon recent developments/exposuredraftin IFRS	K1,K2,K3
4	preparenotesto accountsfornon-currentassets andAssignment onsocial reporting	K1,K2,K3
5	preparethe Consolidated Financial Statementofanytwo existing companies.Disclosureof changeinequity intheannual reportsofanytwo select companies.	K1,K2,K3

COURSE CODE	U21CCS64	PERSONALSELLINGANDSALESMANSHIP	L	T	P	C
SkillBasedElective-II			2	-	-	2

CourseOutcomes

Uponthecompletionofthe course,thestudents willbe able to

1	Prepare themselves forpersonalselling	K1,K2,K3
2	Identifyandunderstand oftheories ofSelling	K1,K2,K3
3	Understand andidentify themotivesof buying	K1,K2,K3
4	Havethorough Knowledgeon SellingProcess	K1,K2,K3
5	Understand theprocedurein Salesplanningand controlling	K1,K2,K3

K1-Remembering**K2**–Understanding **K3**–Applying

COURSE CODE	U21CCV51	E-FILING	L	T	P	C
VALUEADDED COURSE			2	-	-	2

CourseOutcomes:

Uponthecompletionofthe course,the students willbe able to

1	learn the conceptual understanding about filing of returns and e-filing	K1,K2,K3
2	understand the completion of the course, the students willtoAcquire knowledge about Income Tax and filing of different taxReturns	K1,K2,K3
3	makePresentation onrecent developments inE-filing	K1,K2,K3
4	understandGSTanditsmechanism,different GSTReturnsanddue dates of filing the returns Course Outcomes After successful completionofthe course	K1,K2,K3
5	Become expertinGST anddifferentGSTRsandtheirdue dates.	K1,K2,K3

B.Com

ProgramSpecificOutcomes(PSOs)

AfterthesuccessfulcompletionofB.COMProgram,thestudentsareexpectedto	
PSO1	havestrongbaseonthecourserelevanttotheareaofcommercewhichhelps to choose their career
PSO2	acquire knowledge and skills which build confidence to identifytheircareer opportunities in multiple dimensions.
PSO3	Nurture intellectual,personal, interpersonal andsocialskills withafocuson relevantprofessionalcareerparticularly,tomaximizeprofessionalgrowth.
PSO4	Empower necessarycompetenciesand decisionmakingskillsto fosterthe innovative thinking to become an entrepreneur.
PSO5	Become expertinthefieldof ommunicationwithethical consciousness.
PSO6	Equipwiththe practicalskills toworkas accountants,auditassistants,tax consultants,and computer operators as well as other financial supporting services.
PSO7	Develop advanced accounting careerskills,applying bothquantitative andqualitative knowledge to their future careers in Business.
PSO8	get placement in Higher Education Institutions and can makeresearch in the field of Finance, Banking and Commerce.

COURSE CODE	U21COT11	FINANCIALACCOUNTING-I	L	T	P	C
COREI			6	-	-	4

Courseoutcomes:A the end of the course,students would be able to:

1	recallAccountingConceptsandConventionsanduseAccountingrulestorecord business transactionsinthe formofJournal,Ledger,subsidiarybooksand preparation of Trial Balance.	K1
2	Understand hestepsinvolved inlocatingerrors andpreparethemto Understand thetopreparation offinalaccountsforsole traders.	K2
3	Outlinethe conceptsof Billsofexchange, Averageduedate andAccountCurrent	K2
4	Examine heconceptsof consignmentand joint venture.	K4
5	analyze thebank reconciliation statement,Receiptsand payments,Incomeand expenditureand Balanceshee tandaccounting forprofessionals toenhance the knowledge.	K4
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create		

COURSE CODE	U21COT12	BUSINESSORGANIZATIONAND MANAGEMENT	L	T	P	C
COREII			5	-	-	4

Courseoutcomes: Attheendofthecourse,studentswouldbeableto:

1	understand the concepts of business and its forms of organizations involved insole trader,partnership firms,companies andco-operative societiesand publicenterprise.	K2
2	Analyze thebusiness factorswhich areinvolved insourcesoffinance.	K4
3	Explainthe functioning ofstock exchanges SEBI,DEMATofshares.	K2
4	Remember officefunctions ,layoutand acommodation.	K1
5	Outline office equipment sandEDP.	K2
	K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create	

COURSE CODE	U21COA11	BUSINESSECONOMICS	L	T	P	C
ALLIED-I			5	-	-	4

Courseoutcomes: At the end of the course,students would be able to:

1	Understandthe Businesssystems,there asonfor existenceof Firms, consumer preference and application of utility analysis and knowing role of business economist.	K1,K2,K3
2	Understandand estimate production function,stagesof productionand forms of production function and laws	K1,K2,K3
3	Understandbasic conceptsof demandand supplyandits determinants,the determinants of elasticityand applications ofdifferent forecasting techniques.	K1,K2,K3
4	Understand cost function, Analysis cost and concepts ofrelevant costs and revenues**.**	K1,K2,K3
5	compare and contrast four basic market types, concepts of monopolistic and oligopoly competition and its effect of non-price factors on products and services.	K1,K2,K3
	K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create	

COURSE CODE	U21COT21	FINANCIALACCOUNTING-II	L	T	P	C
CORE-III			4	1	-	4

Courseoutcomes: At the end of the course,students would be able to:

1	describethe conceptsbasedondepreciationanditsmethodsinbooksof accounts.	K1
2	Outlineabout thenatureof InvestmentandRoyalexcludingSublease.	K2
3	Identifythe essential characteristics ofsingleentrysystem.	K3
4	Applyth basicconcepts ofdepartmentaland branchaccounting.	K4
5	Familiarize theprocedure relating tohirepurchase andinstallmentin booksof accounts	K2
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create		

COURSE CODE	U21COT22	PRINCIPLESOFMARKETING	L	T	P	C
CORE-IV			5	-	-	4

Courseoutcomes: At the end of the course,students would be able to:

1	Definethe variousconcepts andtermsrelatedto marketing	K1
2	Explain aboutvariousmarketing functions	K2
3	Understand termsof consumer behaviourand examinedabout different concepts related to consumers.	K2
4	Identifythe marketing mixandits elements	K1
5	Understand different provisions relatedtotrendsine mergingmarkets.	K2
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create		

COURSE CODE	U21COA22	BUSINESSCOMMUNICATION	L	T	P	C
ALLIED-II			5	-	-	4

Courseoutcomes: At the end of the course,students would be able to:

1	Outlinethe importanceof effectivebusiness communication	K2
2	Understand theintricaciesof respondingto businessrelatedqueries	K2
3	Categorize effective ecorrespondence withbanks,insurance andagencies	K3
4	Examine effective esponsetocompany secretarial correspondence	K4
5	Analyzene winnovativeand effectiveidea sforbusiness communication	K4
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create		

COURSE CODE	U21COT31	BUSINESS STATISTICS	L	T	P	C
CORE–V			3	2	-	4

Courseoutcomes: At the end of the course,students would be able to:

1	acquireknowledgeaboutaveragestobeusedinBusinessResearch	K1,K2,K3
2	Gainknowledge aboutStandard Deviation,Skewness.	K1,K2,K3
3	gain knowledge about the application of Correlation and Regression	K1,K2,K3
4	get anindepthknowledgeabout IndexNumbers	K1,K2,K3
5	Acquireknowledge inMeasures ofTrendandits applicationin Business Research.	K1,K2,K3,K6
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create		

COURSE CODE	U21COA33	PRINCIPLESOFINSURANCE	L	T	P	C
ALLIED-III			5	-	-	4

Courseoutcomes: At the end of the course,students would be able to:

1	Recallthe differentconcepts ofinsuranceandits working	K1
2	Explaintheconcept ofagentanditsworking system	K2
3	Evaluatethefunctionsof agentsand variousformsof underwriting	K5
4	AnalyzeTheVariousActuarialAspectsRelatingToInsuranceCompanies	K4
5	Listthebasicprinciples ofinsuranceandvarious typesof it.	K4
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create		

COURSE CODE	U21COE311	CHOICE-I	L	T	P	C
ELECTIVE–I		HUMANRESOURCEMANAGEMENT	4	-	-	3

Courseoutcomes: At the end of the course,students would be able to:

1	understandtherecentHRMconceptsanditschallenges	K1,K2,K3
2	know the job analysis for placing the suitable person at the suitable place	K1,K2,K3
3	gain the benefits of training and development to the employees ofan organisation with a view to attaining goals of the organization	K1,K2,K3
4	gainbasic knowledge ofassessing and techniques of performance appraisal	K1,K2,K3
5	understandCompensationand Maintenance ofCompensation system	K1,K2,K3
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create		

COURSE CODE	U21COE312	CHOICE-II	L	T	P	C
ELECTIVE–I		TRAININGANDDEVELOPMENT	4	-	-	3

Courseoutcomes: Attheendofthecourse,studentswouldbeableto:

1	Analysethetraining strategiesadoptedby companiesinreal situations	K1,K2,K3
2	Identifytraining needsofanindividualby conductingTraining Need Analysis	K1,K2,K3
3	differentiate between the applicability of various training strategies and select a strategy based upon the result of TNA	K1,K2,K3
4	Developatraining anddevelopment module	K1,K2,K3
5	Evaluateandassess thecostandbenefit sofatrainingand development programme.	K1,K2,K3
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create		

COURSE CODE	U21COT41	COSTACCOUNTING	L	T	P	C
CORE-VI			3	1	-	4

Courseoutcomes: At the end of the course,students would be able to:

1	recallvariousconceptsofcostingandcostingmethods	K1
2	analyzethevariouselementsof costing	K4
3	explainthelabourwagepaymentsystem	K2
4	outlinethecostunderprocesscostingsystem	K2
5	examineaboutoperationalcosting,contractcostingandReconciliationofCost and Financial Statements.	K4
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create		

COURSE CODE	U21COT42	BUSINESSENVIRONMENT	L	T	P	C
CORE-VII			4	-	-	4

Courseoutcomes: At the end of the course,students would be able to:

1	understand the concept, significance and changing dimensions of Business Environment	K1,K2,K3
2	appreciatetheimportanceandimpactofchanginglawsand regulations on a business firm	K1,K2,K3
3	learnaboutemergingdimensionsinsocio-culturalenvironment and its relevance for a business firm.	K1,K2,K3
4	gaininsightsonroleofeconomicsystems,economicplanning, governmentpolicies,public sector and development banks, economicreforms,liberalizationanditsimpactonbusiness.	K1,K2,K3
5	gain insights on patent laws, policy on research and development and new technological developments in Business Environment	K1,K2,K3
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create		

COURSE CODE	U21COA44	BUSINESSMATHEMATICS	L	T	P	C
ALLIED-IV			2	2	-	4

Courseoutcomes: At the end of the course,students would be able to:

1	understandthenumbersystem	K1,K2,K3
2	understandthesettheory	K1,K2,K3
3	Knowthecalculationsofindicesandsurds	K1,K2,K3
4	Understand the calculations of interest , annuities and depreciation	K1,K2,K3
5	Knowtheapplicationsofprobabilitydistributionsand matrices	K1,K2,K3
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create		

COURSE CODE	U21COE421	CHOICE-I	L	T	P	C
ELECTIVE–III		ELEMENTSOFE-COMMERCE	3	-	-	3

Courseoutcomes: At the end of the course,students would be able to:

1	understandbasicconceptsone-commerce	K1,K2,K3
2	Understand variousmethodson Architecturalaspectofe-Commerce**.**	K1,K2,K3
3	gainessentialknowledgeonsecurityaspectofe-commerce	K1,K2,K3
4	Gainapplicationknowledge onecommerce inbusiness.	K1,K2,K3
5	Gainconceptual knowledge onmultimediaine-commerce	K1,K2,K3
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create		

COURSE CODE	U21COE422	CHOICE-II	L	T	P	C
ELLECTIVE-III		DIGITAL MARKETING	3	-	-	3

Courseoutcomes: At the end of the course,students would be able to:

1	identifyand assess the impact of digital technology in transformingthebusinessenvironmentandalsothecustomer journey;	K1,K2,K3
2	explain the waymarketers think, conceptualize, test continuously to optimize their product search on digital platforms;	K1,K2,K3
3	illustrate the measurement of effectiveness of a digital marketing campaign;	K1,K2,K3
4	demonstrate their skills in digital marketing tools such as SEO,Social media, and Blogging for engaging the digital generation;	K1,K2,K3
5	understandtheconceptofAIinDigital Marketing;	K1,K2,K3
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create		

COURSE CODE	U21COT51	MANAGEMENTACCOUNTING	L	T	P	C
CORE-VIII			5	-	-	4

Courseoutcomes: At the end of the course,students would be able to:

1	outlinethevariousconceptsrelatingtomanagementaccounting	K2
2	analyzefinancialstatementsusingratioanalysis	K4
3	evaluatetheworkingcapitalmanagementof companies	K5
4	comparingvariousalternatives usingmarginalcostinganddecision making	K2
5	analyzenewbudgetandbudgetarycontrolfororganizations	K4
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create		

COURSE CODE	U21COT52	AUDITING	L	T	P	C
CORE-IX			5	-	-	4

Courseoutcomes: At the end of the course,students would be able to:

1	definetheimportantconceptandrulesrelatingtoauditing	K1
2	outlinethetechniques andapplicabilityofinternal audit	K2
3	analyzethevaluationofassetsandliabilitiesin business	K4
4	analyzethe accounts andauditingthejointstockcompanies	K4
5	examineaboutinvestigationandauditingofcomputerizedaccounts	K4
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create		

COURSE CODE	U21COT53	INCOMETAXLAWANDPRACTICE	L	T	P	C
CORE-X			5	-	-	4

Courseoutcomes: At the end of the course,students would be able to:

1	outlinethevariousterminologiesrelatedtoincometax	K1
2	understandthemethodofcalculatingandlevying tax	K2
3	applythevarious tax laws and availableprovisions in taxcomputations	K3
4	evaluatethesetoffandcarryforwardoflosseswhilecalculatingpersonalincome	K5
5	analyzeself-assessmentofincomeandtaxcomputation	K4
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create		

COURSE CODE	U21COT54	ENTREPRENEURIALDEVELOPMENT	L	T	P	C
CORE-XI			5	-	-	4

Courseoutcomes: At the end of the course,students would be able to:

1	recalltheimportanceandroleofentrepreneurshipasaneconomicactivity	K1
2	explainthevariousprocessofsettingupastartup	K2
3	outlinethevariousinstitutionalservicestoentrepreneur	K2
4	analyzethevariousfinancialinstitutionavailabletosupportentrepreneurs	K4
5	listthevarioussubsidiesandincentivesavailableforentrepreneurs	K4
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create		

COURSE CODE	U21COT55	BANKINGTHEORY,LAWANDPRACTICE	L	T	P	C
CORE-XII			5	-	-	4

Courseoutcomes: At the end of the course,students would be able to:

1	understand the banking legislations and relationship between banker and customer.	K1,K2,K3
2	knowthevarioustypesofbankaccounts.	K1,K2,K3
3	gainknowledgeofnegotiableinstrumentsusedinbanks.	K1,K2,K3
4	knowthestatutoryprovisionsofthebanker.	K1,K2,K3
5	know theprinciplesandvariousformsoflendingbythe banks.	K1,K2,K3
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create		

COURSE CODE	U21COE531	CHOICE-I	L	T	P	C
ELECTIVE–III		FUNDAMENTALSOFINVESTMENT	3	-	-	3

Courseoutcomes: At the end of the course,students would be able to:

1	explainthebasicsofinvestmentenvironmentanddifferent investment avenues available.	K1,K2,K3
2	analysethetypes offixedincomesecurities	K1,K2,K3
3	assesstheapproaches toequityanalysis	K1,K2,K3
4	apply the techniques portfolio analysis and financial derivatives.	K1,K2,K3
5	advisehowtoprotecttheinvestors.	K1,K2,K3
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create		

COURSE CODE	U21COE532	CHOICE-II	L	T	P	C
ELECTIVE–III		ARTIFICIALINTELLIGENCEFOR BUSINESS	3	-	-	3

Courseoutcomes: At the end of the course,students would be able to:

1	identifyhowtheAIisbeingleveragedbystart-upsasasuccess tool	K1,K2,K3
2	analyseandinterpret the applicabilityofAIinHRfunctions	K1,K2,K3
3	explainhowalgorithms ischangingtheboardroom landscape	K1,K2,K3
4	discuss thecustomerservicesprovidedbyvariousbanksusing AI	K1,K2,K3
5	demonstratetheroleofAIintransformingtheretailsector	K1,K2,K3
K1-Remembering**K2**–Understanding**K3**–Applying		

COURSE CODE	U21COS53	COMPANY LAW	L	T	P	C
SBEI			2	-	-	2

Courseoutcomes: At the end of the course,students would be able to:

1.	knowthebasicconceptsofjointstockcompanies	K1,K2,K3
2.	understandvarioustypes ofsharesofcompanies	K1,K2,K3
3.	knowtheprovisionsapplicabletodirectorsofacompany	K1,K2,K3
4.	understandthevarioustypesofmeetingsconductedina company	K1,K2,K3
5.	understand theprovisionsapplicableforwindingupofcompanies	K1,K2,K3
K1-Remembering**K2–**Understanding**K3–**Applying		

COURSE CODE	U21COT61	CORPORATEACCOUNTING	L	T	P	C
CORE-XIII			6	-	-	4

Courseoutcomes: At the end of the course,students would be able to:

1	developtheskillofpreparingentriesforissueof shares	K1,K2,K3
2	knowtheaccountingentriesfor underwriting ofsharesand redemption of preference shares	K1,K2,K3
3	knowledge in calculation and valuation of shares and goodwill of companies	K1,K2,K3
4	understandtheprovisionsofacquisitionofthe business	K1,K2,K3
5	gain theknowledgeininternalandexternalreconstructionincompanies	K1,K2,K3
K1-Remembering**K2–**Understanding**K3–**Applying		

COURSE CODE	U21COT62	BUSINESSTAXATION	L	T	P	C
CORE-XVI			6	-	-	4

Courseoutcomes: At the end of the course,students would be able to:

1	recallvariousconceptsrelatingtoIndirecttaxregimeinIndia	K1
2	analyzethe conceptandapplicabilityofGSTinbusinesses	K4
3	comparetheGSTregime withotherindirecttax lawspriortoit	K2
4	illustrateGSTsysteminownbusinessandotherprototypes	K2
5	examinethecustomlawandrelateddutiesandtaxes	K4
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create		

COURSE CODE	U21COT63	FINANCIALMARKETSAND INSTITUTIONS	L	T	P	C
CORE-XV			5	-	-	4

Courseoutcomes: At the end of the course,students would be able to:

1	definethebasicconceptsoffinancial market	K1
2	analyzetheworkingand componentsofcorporatesecuritiesmarket	K4
3	explainthefunctioningofstockexchanges inIndia	K4
4	explaintheroleofbanksandintermediariesinfinancialmarket	K4
5	applyvarioustrends and newmodesinfinancing	K3
	K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create	

COURSE CODE	U21COT64	FINANCIALMANAGEMENT	L	T	P	C
CORE-XVI			4	-	-	4

Courseoutcomes: At the end of the course,students would be able to:

1	outlinevariousconcepts relatingto finance	K2
2	listthevarioustechniquesoffinancialplanning	K2
3	analyzevarioussourcesandformsoffinance	K4
4	examinethevariousdimensionsofcapitalmarketandtheircomponents	K4
5	listthecapitalizationconceptandrelatedtheoriesfordecision making	K4
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create		

COURSE CODE	U21COT65	FINANCIALSERVICES	L	T	P	C
CORE-XVII			4	-	-	4

Courseoutcomes: At the end of the course,students would be able to:

1	Togiveanideaaboutfundamentalsoffinancialservicesandplayers in financial sectors	K2
2	Tocreateanawarenessaboutmerchantbanking,issuemanagement, capital markets androle of SEBI	K2
3	Toprovideknowledgeaboutleasingandhirepurchaseconcepts	K4
4	Tomakethemunderstandaboutdifferenttypesofinsuranceand IRDA Act.	K4
5	Toprovideknowledgeaboutmutualfundsandvariousfunding models.	K4
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze; **K5**-Evaluate; **K6**-Create		

COURSE CODE	U21COE641	CHOICE-I	L	T	P	C
ELECTIVE- IV		BUSINESSLAW	3	-	-	3

Courseoutcomes: At the end of the course, students would be able to:

1	assessthevariouselementsrelatedbusinesslawandcontract	K5
2	interpretedifferent typeofcontractandits features	K2
3	explainabouttheagencysystemrelatedtocreationandterminationofagency	K5
4	comparebetweenrightsanddutiesofindemnity, guarantee	K5
5	examinethedistinctbetweensaleandagreementtosellandits features	K4
K1-Remember;**K2**-Understand;**K3**-Apply;**K4**-Analyze;**K5**-Evaluate;**K6**-Create		

COURSE CODE	U21COE642	CHOICE-II	L	T	P	C
ELLECTIVE- IV		CORPORATEGOVERNANCE	3	-	-	3

Courseoutcomes: At the end of the course,students would be able to:

1	explain the concept and importance of corporate governance in a business setup;	K1,K2,K3
2	explain the concept of corporate governance in organisations and its essence for management;	K1,K2,K3
3	analysetheroleofboardofdirectorsandshareholdersin corporate management;	K1,K2,K3
4	assess the problems incorporategovernance on the basis of major corporate governance failures;	K1,K2,K3
5	describecorporategovernanceframeworkinIndia;	K1,K2,K3
K1-Remembering**K2**–Understanding**K3**–Applying		

Bio-Chemistry

CourseCode	U21BCT11	BIOMOLECULES	L	T	P	C
Core	I		5	-	-	4

Course outcome	Uponcompletionofthiscourse, thestudents willbeableto		
	CO	**CourseOutcomes**	**KnowledgeLevel**
	CO1	understandthefoundationoflifeandstructureandfunctions ofcarbohydrates	K1,K2
	CO2	attainknowledgeinstructure,properties,roleand classificationofaminoacids andproteins	K1,K2, K3
	CO3	know the structure, properties, role andclassificationofLipidsand fattyacids	K1,K2, K3
	CO4	learnthetypesofnucleicacidsanditsstructureand biological importance.	K1,K2, K3
	CO5	gainknowledgeonvarioustypes,functions, requirements and deficiency diseases ofvitamins	K1,K2, K3

CourseCode	U21PHA11	PHYSICS FORBIOLOGY	L	T	P	C
Allied	I		5	-	-	4

Course outcomes	Uponcompletionofthiscourse, thestudentswillbeableto		
	CO	**CourseOutcomes**	**KnowledgeLevel**
	CO1	analyzeandunderstandthetechniques ofspectroscopy.	K1,K2
	CO2	understand the basic principle of emission spectroscopy and mass spectroscopy.	K1,K2, K3
	CO3	recognize the principles of thermodynamics.	K1,K2, K3
	CO4	realizeandlearnthevarioustypesof radioisotopes	K1,K2, K3
	CO5	gatherthe knowledgeonbiological hazardsofradiationand safety.	K1,K2, K3

Course Code	U21BCT21	FUNDAMENTALSOFCELLBIOLOGY	L	T	P	C
Core	III		5	-	-	4

Course outcomes	Uponcompletionofthiscourse,the studentswillbe		
	CO	**CourseOutcomes**	**KnowledgeLevel**
	CO1	acquireknowledgeonstructureandfunctionsofcellorganelles	K1,K2
	CO2	understandsmembraneorganelles,nucleusandchromosomes	K1,K2, K3
	CO3	gainknowledgeoncell cycle	K1,K2,K3
	CO4	understandthecellcommunicationanditsregulation	K1,K2, K3
	CO5	understandthestagesin cancerandlearnaboutapoptosis	K1,K2, K3

Course Code	U21BCT21	FUNDAMENTALSOFCELLBIOLOGY	L	T	P	C
Core	III		5	-	-	4

Course outcomes	Uponcompletionofthiscourse,the studentswillbe		
	CO	**CourseOutcomes**	**KnowledgeLevel**
	CO1	acquireknowledgeonstructureandfunctionsofcellorganelles	K1,K2
	CO2	understandsmembraneorganelles,nucleusandchromosomes	K1,K2, K3
	CO3	gainknowledgeoncell cycle	K1,K2,K3
	CO4	understandthecellcommunicationanditsregulation	K1,K2, K3
	CO5	understandthestagesin cancerandlearnaboutapoptosis	K1,K2, K3

Course Code	U21BCT22	NUTRITIONALBIOCHEMISTRY	L	T	P	C
Core	IV		5	-	-	4

Courseoutcomes	Uponcompletionofthiscourse, thestudents willbeableto		
	CO	CourseOutcomes	Knowledge Level
	CO1	explainthefunctions,an groupsoffoodandits alysis	K1,K2
	CO2	discuss thebinomialclassification,functionsandrequirements ofthecarbohydrates, proteins	K1,K2, K3
	CO3	describetheclassificationandfeaturesofvitaminsand minerals	K1,K2, K3
	CO4	recognizetheconceptsofBMR,RDA,energyanditsreq uirements,knowaboutthebalanceddiet formulation.	K1,K2, K3
	CO5	acquireknowledgeonthenutritionalchallengesofthefu tureandfoodadulterations	K1,K2, K3

CourseCode	U21BCA22	STATISTICSFOR BIOLOGY	L	T	P	C
Allied	II		5	-	-	4

Courseoutcomes	Uponcompletionofthiscourse, thestudents willbeableto		
	CO	CourseOutcomes	Knowledge Level
	CO1	acquire information on collection of data andrepresentationindiagramand graph	K1,K2
	CO2	understandtheproblemsinmeasuresofcentraltendencyan d distribution	K1,K2, K3
	CO3	recognizethemeasuresofsymmetry	K1,K2,K3
	CO4	familiarizeoncorrelationandregression.	K1,K2, K3
	CO5	receiveelaborateknowledgeontestsofstatisticalsignifican ce.	K1,K2, K3

CourseCode	U21BCT31	PLANTPHYSIOLOGYAND BIOCHEMISTRY	L	T	P	C
Core	V		5	-	-	4

Courseoutcomes	Uponcompletionofthiscourse, thestudents willbeableto		
	CO	**CourseOutcomes**	**KnowledgeLevel**
	CO1	explainphotosyntheticcyclesanditsfactors	K1,K2
	CO2	understandthehormones ofplantandtheirbiologicalimportance	K1,K2, K3
	CO3	illustratetheconceptofplantsnutritionandit'sdefi ciency	K1,K2, K3
	CO4	recognizethe physiologyandreproduction ofplants	K1,K2, K3
	CO5	discuss thetissueultureandsecondarymetabolites	K1,K2, K3

Course Code	U21CHA33	CHEMISTRY	L	T	P	C
Allied	III		5	0	0	4

CourseOutcomes	Uponcompletionofthiscourse, thestudents willbeableto		
	CO	**CourseOutcomes**	**KnowledgeLevel**
	CO1	gaintheknowledgeonthehandlingofchemical sand errorsinchemicalanalysis,	K1,K2
	CO2	understandaboutthechemicalbondingandhyb ridization	K1,K2
	CO3	learnthecalculationsofpreparingstandardsolu tions	K1,K2
	CO4	discuss and appreciate the advancedconceptsandrateequation sinchemical kinetics.	K1,K2, K3
	CO5	knowtheimportanceofBiomoleculesinchemi stry	K1,K2, K3

Course Code	U21BCT41	INTERMEDIARYMETABOLISM	L	T	P	C
Core	VI		4	-	-	4

Course outcomes	Uponcompletionofthiscourse, thestudents willbeableto		
	CO	**Course Outcomes**	**Knowledge Level**
	CO1	definetheconceptsofmetabolism andenergetics	K1,K2
	CO2	gainknowledgeonvariouscyclesofcarbohydratemetabolism and theirenergetics	K1,K2, K3
	CO3	recognizetheaminoacidmetabolismcyclesandtheirenergetic	K1,K2, K3
	CO4	knowandunand Lipid metabolismcyclesand dersttheire nergetics.	K1,K2, K3
	CO5	illustratethekeyconceptsinmetabolismofNucleic acids	K1,K2, K3

CourseCode	U21BCE421	NANOMATERIALS	L	T	P	C
Elective	II		3	-	-	3

Courseoutcomes	Uponcompletionofthiscourse, thestudents willbeableto		
	CO	**CourseOutcomes**	**KnowledgeLevel**
	CO1	learnthefundamentalsandclassificationsofnanomaterials	K1
	CO2	understand the structure and bonding in nanomaterials	K2
	CO3	gain knowledge on the synthesis ofnanomaterialsfromdifferentsources	K1,K2
	CO4	learn the techniques to characterizenanomaterials	K3
	CO5	acquireknowledgeontheapplicationsofnanomaterials	K2

CourseCode	U21BCT51	GENERALMICROBIOLOGY	L	T	P	C
Core	VIII		5	-	-	4

Courseo utcomes	Uponcompletionofthiscourse, thestudents willbeableto		
	CO	**CourseOutcomes**	**KnowledgeLevel**
	CO1	explainbasicsofmicroorganismsandm icroscopeand itstypes	K1,K2
	CO2	gainknowledgeonvariouscellorganellesofmi cro-organisms anditsstructure	K1,K2, K3
	CO3	describethenutrition,photosynthesis, metabolism ofbacteria	K1,K2, K3
	CO4	illustrate the factors involved in spoilage,poisoningoffood andfoodbornediseases	K1,K2, K3
	CO5	knowthemethods offermentationandapplicationsofmicro besinindustry	K1,K2, K3

CourseCode	U21BCT52	IMMUNOLOGY	L	T	P	C
Core	VIII		5	-	-	4

Courseo utcomes	Uponcompletionofthiscourse, thestudents willbeableto		
	CO	**CourseOutcomes**	**Knowledge Level**
	CO1	understand the history and development ofimmunologyandcontributionsofvarious scientist	K1,K2
	CO2	defineantigensandantibodies	K1,K2, K3
	CO3	illustrateantigen-antibodyreaction	K1,K2, K3
	CO4	definehypersensitivityandexplainitstypes.	K1,K2, K3
	CO5	explaintheconceptsofimmunodeficiency	K1,K2,K3

CourseCode	U21BCT53	PHARMACOLOGY	L	T	P	C
Core	VIII		5	-	-	4

Course outcomes	Uponcompletionofthiscourse, thestudents willbeableto		
	CO	**CourseOutcomes**	**KnowledgeLevel**
	CO1	knowabout thebasicsofpharmacology	K1,K2
	CO2	understandthedrugreceptorsanditsmechanisms	K1,K2, K3
	CO3	acquireknowledgeonthemetabolismofdr ugs	K1,K2, K3
	CO4	understandchemotherapyanddrug's mechanism	K1,K2, K3
	CO5	discussdrugabuseanditsadverse effects	K1,K2, K3

CourseCode	U21BCP53	GENERAL MICROBIOLOGYANDI MMUNOLOGY	L	T	P	C
Core	XII		-	-	5	4

Courseo utcomes	Uponcompletionofthiscourse, thestudents willbeableto		
	CO	**CourseOutcomes**	**KnowledgeLevel**
	CO1	understandhematologyandbloodgroupingmethod s.	K1,K2
	CO2	empathize on various immunologicaltechniques	K1,K2, K3
	CO3	gain expertiseinasepticteчhnique	K1,K2, K3
	CO4	learndifferentstainingtechniques	K1,K2,K3
	CO5	acquire knowledge in various platingtechniques	K1,K2, K3

CourseCode	U21BCT61	PRINCIPLESOFENZYME TECHNOLOGY	L	T	P	C
CORE	XIII		5	-	-	4

Course outcomes	Uponcompletionofthiscourse,the studentswillbe		
	CO	**CourseOutcomes**	**KnowledgeLevel**
	CO1	understandthebasicsandcharacterizationand purificationofenzymes.	K1,K2
	CO2	gainknowle onenzymekinetics and dge inhibition	K1,K2, K3
	CO3	learnaboutt enzymeassayand their he regulation	K1,K2, K3
	CO4	learnthemechanismofactionofenzymewith examples	K1,K2, K3
	CO5	illustratetheapplicationsofenzymeandits immobilizationtechniques	K1,K2,K3

Course Code	U21BCT62	MEDICALBIOCHEMISTRY	L	T	P	C
CORE	XIV		5	-	-	4

Courseo utcomes	Uponcompletionofthiscourse,the studentswillbe		
	CO	**CourseOutcomes**	**KnowledgeLevel**
	CO1	describevariousmechanismdisorderso fcarbohydrates	K1,K2
	CO2	discussaboutthelipidmetabolismdi sorders	K1,K2, K3
	CO3	realizethedisordersofproteinandam inoacid metabolism	K1,K2, K3
	CO4	knowandunderstandaboutthenucleicaci dmetabolism	K1,K2, K3
	CO5	analyzeandrealizethefactsoftissuefun ctiontests	K1,K2, K3

B.Sc.BIOTECHNOLOGY

1. ProgramSpecificOutcomes(PSOs)

OncompletionofB.Sc.BiotechnologyProgramme,thestudentswillbeableto

PSO1	enrichtheknowledgeinthebasicconceptsandprinciples ofBiotechnology.
PSO2	apply the theoreticalandpractical knowledge ofBiotechnology ingaining asuccessfulcareer.
PSO3	workasentrepreneursandtechnomanagerswithstrongethicsandcommunicationskills.
PSO4	interact effectively with people in the field of Biotechnology and allied industries indesigning, developing, and providing solutions for product/ processes/ Technology/Development.
PSO5	beproficientwithbasiclaboratoryskillsandhandsontraining reuiredforhigherstudies and research.

Course Code	U21BTT11	CELLANDMOLECULARBIOLOGY	L	T	P	C
CORE-I			6	-	-	4

Course Outcomes		Uponcompletionofthiscourse, thestudentswill beableto	
	CO1	comprehendthestructureandfunctionoftheplantcell.	**K2**
	CO2	understandtheimportanceofcell cycle.	**K2**
	CO3	gainknowledgeintheorganizationofchromosomesandre plication ofDNA	**K3**
	CO4	illustratethemechanismsintheprocessoftrans cription.	**K4**
	CO5	analyse the factors required for the translation and posttranslationalmodifications	**K2**

CODE	U21BTT12	THEORY-GENETICS	L	T	P	C
COREII			5	-	-	4

CourseOutcomes		Uponcompletionofthiscourse, thestudentswill beableto	
	CO1	describetheclassicalconceptsofMendeliangeneticsacrossli fe-forms.	**K2**
	CO2	understandtheconceptsofmultiplealleleSandsexlinkeddisor ders.	**K2**
	CO3	illustratethechromosomeorganizationandpedigreeanalysis .	**K3**
	CO4	compareandcontrastthechromosomaltraitsindifferentchro mosomaldisorders.	**K4**
	CO5	knowaboutpopulationgeneticsandlearnthewaystopreventc hromosome disorders.	**K2**

Course Code	U21BOA11	TAXONOMYANDPLANTPHYSIOLOGY	L	T	P	C
Allied -I			5	-	-	4

CourseOutcomes		Uponcompletion ofthiscourse, thestudentswill beableto	
	CO1	listtheterminologiesintaxonomy.	K2
	CO2	illustratethekeyconceptsinBenthamandHookerclassification.	K3
	CO3	understandthedifferenttypesofwater,soluteandmineraluptakein plants.	K2
	CO4	understandanddemonstratetheprocessofphotosynthesis.	K3
	CO5	compare theroleofdifferent regulatorysubstances inplantgrowth.	K4

CODE	U21BTT21	BIOCHEMISTRY	L	T	P	C
COREIII			5	-	-	4

CourseOutcomes		Attheendofthecourse,thestudentwill beableto
	CO1	understandaboutthe classificationofcarbohydrates - Properties,structureandbiologicalfunctions
	CO2	knowaminoacids-structure,classification,physicalandchemicalproperties.
	CO3	illustratethestructureandfunctions ofnucleicacids
	CO4	gainknowledgeonlipids-classificationandbiological
	CO5	know the importance of vitamins and their deficiencyproblems

Course Code	U21BTP21	PRACTICAL-BIOCHEMISTRY	L	T	P	C
COREIV			-	-	5	4
CourseOutcomes		Uponcompletionofthiscourse, thestudentswill beableto				
	CO1	analysetheroleofchemicalconstituents requiredfortheestimation ofbiomolecules.	K4			
	CO2	illustratetheprinciplebehindtheestimationofprotein,DNAand RNA.	K3			
	CO3	organizethe laboratorysetup foroilanalysisusingiodineandacid number.	K5			
	CO4	learnaboutthebasicprocedureofpaperchromatography.	K5			
	CO5	learnaboutthebasicpreparation ofbuffersandtheprinciplesofbasic instruments.	K3			

Course Code	U21ZOA22	ANIMALPHYSIOLOGY	L	T	P	C
ALLIEDII			5	-	-	4
CourseOutcomes		Uponcompletion ofthis coursethestudents will beabte to				
	CO1	knowabouttheroleofenzymes indigestion	K2			
	CO2	acquireknowledgeonrespirarionandfunctionsofrespiratorypigments	K2			
	CO3	differentiatethebloodcomponentsandapplythemtofindeachcomponent	K3			
	CO4	gainknowledgeonnervoussystemandfunctionsofneurotransmitters	K2			
	CO5	evaluatetheconceptsofreproductivesystemandunderstandits functioning	K5, K2			

Course Code	U21BTT31	DEVELOPMENTALBIOLOGY	L	T	P	C
COREV			5	-	-	4
Courseoutcomes		Uponcompletion ofthiscourse, thestudents will beableto				
	CO1	gatherknowledgeongametogenesis			K1,K2	
	CO2	acquireinformationoneggandcleavage			K1,K2, K3	
	CO3	recognizetheimportanceofgastrulation			K1,K2,K3	
	CO4	explaintheprocessofoogenesis			K1,K2, K3	
	CO5	describeregenerationandhumanreproduction			K1,K2, K3	

Course Code	U21CHA33	CHEMISTRY	L	T	P	C
ALLIED	III		5	-	-	4
CourseOutcomes		Uponcompletion ofthiscourse, thestudentswill beableto				
	CO1	gaintheknowledgeonthehandlingofchemicalsanderrorsinchemicalanalysis			K1, K2	
	CO2	learn about bonding and chemicalhybridization			K1, K2	
	CO3	acquire knowledge calculations for onpreparingstandardsolutions			K1,K2	
	CO4	understandtheadvancedconceptsandrateequations in chemicalkinetics.			K1,K2,K3	
	CO5	learn the of chemistry importanceinBiomolecules			K1,K2,K3	

Course Code	U21BTE311	ENDOCRINOLOGY	L	T	P	C
ELECTIVE-I			4	-	-	3
Course		Uponcompletionofthiscourse, thestudentswillbeable to				
	CO1	understandthehormoneclassificationandfunctionofhormones				K1
	CO2	knowthestructureofPituitaryglands anditshormonefunction				K2
	CO3	comprehend the gastrointestinal hormonesfunctionsontheregulationofmacromolecules metabolism				K2
	CO4	learntheimportanceofadrenalinandthymichormones				K2
	CO5	getdeepknowledgeonovariancyclesandsexhormones				K2

Course Code	U21BTE312	NUTRITIONALBIOCHEMISTRY	L	T	P	C
ELECTIVE -II			4	-	-	3
Courseoutcome		Uponcompletionofthiscourse, thestudentswill beableto				
	CO1	gatherinformationonfoodanditsnutrition.				K1
	CO2	knowthenutrients value and its importance in preventionofdisease.				K1
	CO3	acquireknowledgeondiabetesmellitusanditseffect inourbody.				K2
	CO4	recognisetheimportanceofbalanceddiet.				K2
	CO5	realisethe facts behindthesignificanceofnutrients.				K2

CODE	U21BTN311	VERMITECHNOLOGY	L	T	P	C
NMEI			2	-	-	2

CourseOutcome	Uponcompletion ofthiscourse, thestudentswill beableto		
	CO1	gainbasicknowledgeaboutVermicomposting.	**K2**
	CO2	illustratetheeconomicimportanceofvermicompost	**K3**
	CO3	evaluatetheroleofearthworms in soilfertility	**K6**
	CO4	appraisetheroleof earthwormsinlandimprovement.	**K6**
	CO5	gettheknowledgeofvermiwash anditsapplications	**K6**

CourseCode	U21CHA43	PRACTICAL-CHEMISTRY	L	T	P	C
ALLIEDIV			-	-	4	4

Courseoutcome	Uponcompletion ofthiscourse, thestudentswill beableto		
	CO1	knowtheprocedurefortitrationofacidandbases.	**K1, K2**
	CO2	gain knowledge in the oxidation andreductionagentsandperformtitrations.	**K1,K2,K3**
	CO3	illustratethemethodstopreparestandardsolutions	**K1,K2,K3**
	CO4	learnandillustratetheconceptsiniodometrytitrations	**K1,K2,K3**
	CO5	explainandcomparetheprinciplebehinddifferent titration reactions	**K1,K2,K3**

CODE	U21BTE421	SEEDTECHNOLOGY	L	T	P	C
ELECTIVEII			3	-	-	3
CourseObjectives	Uponcompletion ofthis coursethestudents will beable to					
	CO1	understandthebasicsof seedprocessing				**K2**
	CO2	learnthetechniquesofseeddrying				**K4**
	CO3	illustratetheprocessofseedprocessingmachines.				**K3**
	CO4	learntheseedtratementtechniques				**K3**
	CO5	gainknowledgeonthetechniquesofSeed storage				**K3**

Course Code	U21BTE422	BIOFERTILIZER	L	T	P	C
Elective	II		3	-	-	3
CourseOutcomes	OnSuccessfulcompletion ofthecourse,thestudents willbeableto					
	CO1	knowaboutthebasicsandhistoryofbiofertilizers.				**K2**
	CO2	illustratethepreparationofbiofertilizers.				**K3**
	CO3	gainknowledgeonthepreparationofdifferenttypesofmanures.				**K2**
	CO4	gainknowledgeonthetypesofmanuresaccordinglyto theplant type.				**K2,K3**
	CO5	learnandcomparethestatergiesformassproductionofbiofertilizers.				**K4**

Course Code	U21BTN421	INTELLECTUALPROPERTYRIGHTS	L	T	P	C
NMEII			2	-	-	2

CourseOutcomes		OnSuccessfulcompletion ofthecourse,thestudents will beableto	
	CO1	knowtheimportanceofIPRandIPRinIndia	K2
	CO2	knowaboutpatentanditsimportance	K2,K3
	CO3	acquiretheknowledgeoncopyrights anditsprocedure	K2
	CO4	understandaboutTrademarksandRegistrationofTrademarks	K3
	CO5	knowabouttheprocedureforregistrationofNovelProducts	K2

CODE	U21BTT51	IMMUNOLOGY	L	T	P	C
COREVIII			5	-	-	4

Course Outcomes		Attheendofthecourse,thestudentwill beableto	
	CO1	knowabouttypesofimmunityandantigenandantibodiesinvolved inimmune reaction	K2
	CO2	describethefunctionsof Lymphoidorgans	K2
	CO3	illustratethestructureandfunction ofMHC	K3
	CO4	understandhypersensitivityreactionsandlearnaboutauto immunedisorders and immuno deficiency	K4
	CO5	understandthemechanismofantigenandantibody reactionandalsoknowtheimmunotechniquesfordiagnosisofdiseases.	K2

Course Code	U21BTT52	PRINCIPLES OF ANIMALBIOTECHNOLOGY	L	T	P	C
CORE	IX		5	-	-	4

CourseOutcomes	Uponcompletion ofthis coursethestudents willbeable to		
	CO1	explainthefundamentals ofanimalcellandtissueculture.	**K2**
	CO2	getknowledgeaboutvarious IVFTechniques	**K3**
	CO3	developbasicskills forthetransfer ofDNAinto hostcells	**K5**
	CO4	understandthe genetherapyanditsapplication inmedicine	**K3**
	CO5	acquireknowledgeintransgenicanimalsanditsapplications	**K3**

Course Code	U21BTT53	BASICSOFPLANTBIOTECHNOLOGY	L	T	P	C
CORE	X		5	-	-	4

CourseOutcomes	Uponcompletionofthiscoursethestudentswillbeable to		
	CO1	knowtheorganisation ofgenomeinplants	**K2**
	CO2	learnthemechanism of T-DNAtransferinto aplantcell andtoknowaboutdifferent plant viral vectorsforgenetransfer	**K3**
	CO3	acquireknowledgeonconstructionoflibraries,geneticallymodifiedplants with novel traits	**K2**
	CO4	compareplantgrowthhormonesandgeneexpressionindifferentplants.	**K4**
	CO5	illustratethetechniquesofculturingtissuesandprotoplastisolation	**K3**

Course Code	U21BTP54	BIOINSTRUMENTATION	L	T	P	C
CORE	XI		5	-	-	4

Courseoutcomes	Uponcompletionofthiscourse, thestudentswill beableto		
	CO	**CourseOutcomes**	**KnowledgeLevel**
	CO1	understandthefundamentalsofmicroscope andits workingprinciple.	K1,K2
	CO2	realize the use of Colorimetry and spectroscopy. Acquire knowledge on centrifugeanditstypes	K1,K2, K3
	CO3	recognizetheimportanceofchromatographic techniquesandEmpathizeonelectrophoretic techniques	K1,K2, K3
	CO4	explain the fundamentalsof Biochemical techniques	K1,K2, K3
	CO5	estimateandseparatethelipid molecules	K1,K2, K3

Course Code	U21BTP55	IMMUNOLOGY,PRINCIPLES OFANIMAL BIOTECHNOLOGY ANDBASICS OF PLANTBIOTECHNOLOGY	L	T	P	C
CORE	XII		-	-	5	4

CourseOutcomes	Uponcompletion ofthis coursethestudents will beable to		
	CO1	explaintheprocedureofimmuno-assaysandbloodgrouping.	**K2**
	CO2	understandthedifferenttypesofmediausedanimalcellculture	**K2**
	CO3	illustratethestainingtechniquesinanimaltissueculture.	**K3**
	CO4	learnandunderstandthebasictechniquesofmicrobialisolationFrom soil	**K2**
	CO5	gainknowledgeonisolationofazobacterandphosphatesolubilizingbacteria	**K2**

Course Code	U21BTE511	FORESTRY	L	T	P	C
Elective	III		3	-	-	3

CourseOutcomes		Uponcompletion ofthis coursethestudents will beable to	
	CO1	learnaboutsilvicultureandthecharacteristicsofdifferenttypes offorests	K2
	CO2	understandthemultipurposeoftreesindifferentindustriesandthe scopeofagroforestry	K3
	CO3	acquireknowledgeonforestssoilsandlearntheimportanceoffo restsin soilconservation	K2
	CO4	learnthedamagesthatoccurinforestsandwaystopreventthedamages	K3
	CO5	attainknowledgeontheforesteconomicsandtheforestlawsinIndia	K2

Course Code	U21BTE512	BIODIVERSITYCONSERVATION	L	T	P	C
Elective	III		3	-	-	3

CourseOutcomes		Uponcompletion ofthis coursethestudents will beable to	
	CO1	learnthefundamentalsofBiodiversity-In-situandEx-situconservation	K2
	CO2	know the value of Biodiversity and importance of ecosystemservice	K3
	CO3	explain the global climate changes and bio diversity acts.	K2
	CO4	illustrateremotesensing anditstechniques.	K3
	CO5	comparein-situandex-situconservationtechniques.	K4

CourseCode	U21BTS531	MEDICALLABTECHNOLOGY	L	T	P	C
SBE	III		2	-	-	2

Courseoutcome	Uponcompletionofthiscourse, thestudents will beableto		
	CO1	knowthemethodsofsamplecollection,specimenpreservationand estimationmethods	**K2**
	CO2	estimatebiomoleculesandbodyfluidsusingseveralbiochemicaltests	**K5**
	CO3	understandthemethodsinhistopathologyandsamplefreezingtechniques	**K2**
	CO4	learntheprinciplesofdiagnosisandapplythetechniquesto perform tests	**K2**
	CO5	developskillsinhandlingdifferenttypes ofPCRformoleculardiagnosis	**K1,K2,K3**

Course Code	U21BTS532	FOOD PROCESSINGTECHNOLOGY	L	T	P	C
SBE	III		2	-	-	2

CourseOutcomes	Uponcompletion ofthis coursethestudents willbeable to		
	CO1	gainknowledgeandunderstandingondifferentfoodsandmilk products	**K1**
	CO2	understand thefood preservation techniques and qualityfactors	**K3**
	CO3	understandthefactorsresponsibleforfooddetoriationandways to preventfoodspoilage.	**K2**
	CO4	understandthepreparationofpickle,jam,jelliesandsquash.	**K4**
	CO5	gainknowledgeonfoodsafetyandregulationsofgovernment.	**K2**

Course Code	U21BTT61	ENVIRONMENTALBIOTECHNOLOGY	L	T	P	C
CORE	XIII		5	-	-	4

CourseOutcomes	Uponcompletion ofthiscoursethestudents will beable to		
	CO1	illustratetheclassificationandconservationofnaturalresources	K3
	CO2	comparetheeco-friendlybioremediationtechniquesthatcan solveenvironmental problems.	K4
	CO3	gainknowledgeonbiofertilizersandcropproductivity.	K2
	CO4	comparethepotentialuseofdifferent biopesticidesonplants against pests and know production of biofertilizers andbiopesticides	K4
	CO5	evaluate the role of genetically engineered organisms for treatmentofwaste.	K6

Course Code	U21BTT62	FERMENTATIONTECHNOLOGY	L	T	P	C
CORE	XIV		5	-	-	4

Course Outcomes	OnSuccessfulcompletionofthecourse,thestudents willbeableto		
	CO1	describethemediaformulations,microbial growth kineticsandisolationtechniques.	K2
	CO2	acquire knowledge on bioreactor selection, upstream &fermentation processes, and its role in manufacturing bio-products	K3
	CO3	learnanddescribethedown-streamprocessin fermentation.	K2,K3
	CO4	gainknowledgeaboutproductionofcommercialproductsusin gmicrobes.	K3
	CO5	learnthetechniquesinenzymeimmobilization.	K3

Course Code	U21BTT63	BIOINFORMATICS	L	T	P	C
CORE	XV		5	-	-	4

CourseOutcomes		Upon completion of this course the students will be able to	
	CO1	learn about history of bioinformatics and computer hardwares and softwares	K2
	CO2	gain knowledge to use internet and the search engines	K3
	CO3	gain the knowledge about gene sequences analysis, Multiple sequence alignment	K3
	CO4	gain knowledge in using various biological databases tools	K3
	CO5	know and analyze about evolution and construction of the Phylogenetic tree	K4

Course Code	U21BTT64	BIOSTATISTICS	L	T	P	C
CORE	XVI		5	-	-	4

CourseOutcomes		Upon completion of this course the students will be able to	
	CO1	understand the fundamentals of statistics, methodology and classification of data.	K2
	CO2	know the methods of collecting data and the different types of sampling and sampling designs	K3
	CO3	understand and analyze the measures of central tendency	K4
	CO4	classify variables and meaures of dispersion.	K3
	CO5	learn to use correlation analysis, regression analysis and analysis of variance.	K2

Course Title&Code	U21BTP65	ENVIRONMENTAL BIOTECHNOLOGY,FERMENTATION TECHNOLOGY ANDBIOINFORMATICS	L	T	P	C
CORE	XVII		-	-	5	4

CourseOutcomes			
	Uponcompletion ofthis coursethestudents will beable to		
	CO1	acquirebasictechniques inplantbiotechnology.	K2
	CO2	understandthedifferenttypesofmediausedinmicrobialisolation	K2
	CO3	demonstratetheproduction ofwineandalcohol.	K3
	CO4	knowthebasicsofphylogeneticanalysis	K2
	CO5	analyzesequencesusingBLASTand FASTA	K4

Course Code	U21BTE641	BIOSAFETYANDIPR	L	T	P	C
ELECTIVE	IV		3	-	-	3

CourseOutcomes			
	Uponcompletion ofthiscoursethe studentswill beable to		
	CO1	gain awareness aboutbiosafetyanditslevels	K2
	CO2	analysethe guidelinesof biosafety.	K4
	CO3	acquireadequateknowledgeintheuseofgenetically modifiedorganismsanditseffectonhumanhealth.	K2
	CO4	illustratetheconceptsofIPR	K3
	CO5	learntheprocessforapplyingpatent	K3

Course Code	U21BTE642	FOODBIOTECHNOLOGY	L	T	P	C
Elective	IV		3	-	-	3

CourseOutcomes		Uponcompletion ofthis coursethestudents will beable to	
	CO1	gainknowledgeimportanceandapplicationsofFoodBio technology	K2
	CO2	learnabouttheimportancesofenzymesusedinfoodindustry	K3
	CO3	applythetechniquesandmethodsforthepreparationofculture media,sterilization, inoculationandstaining	K4
	CO4	knowledgeonfermentation processanditsapplication	K3
	CO5	understandtheknowledgeinproductionofsinglecellprotein and its uses.	K2

Course Code	U21BTS61	MUSHROOMCULTIVATION	L	T	P	C
SBE	V		2	-	-	2

CourseOutcomes		Uponcompletionofthiscourse, thestudents will beableto	
	CO1	easilydifferentiateedibleandPoisonousmushroom	K2
	CO2	differentiatethevarioustypesofmushroombasedonoccurrence,colourandmorphology.	K3
	CO3	comparethegerminationandlifecycleofdifferentmushrooms.	K5
	CO4	explainthenutrionalbenefitsofmushrooms.	K2
	CO5	evaluatethe medicinal propertiesofmushrooms.	K6

Course Code	U21BTS62	SINGLECELLPROTEIN	L	T	P	C
SBE	VI		2	-	-	2

Course outcomes	Uponcompletionofthiscourse, thestudents willbeableto		
	CO	CourseOutcomes	KnowledgeLevel
	CO1	understandtheadvantagesanddisadvantagesof algal mass	K1, K2
	CO2	learntheproductionofSCP	K1,K2,K3
	CO3	acquireknowledgeonspirulina cultivation	K1,K2,K3
	CO4	illustratethestepsofspirulinacultivation	K1,K2,K3
	CO5	gather information regarding naturalproduction,masscultivationandpr ocess	K1,K2,K3

Course Code	U21BTV51	DIARYTECHNOLOGY	L	T	P	C
ValueAddedProgramme			30	-	-	2

CourseOutcomes	Uponcompletion ofthis coursethestudents will beable to		
	CO1	listthebenefits ofmilkandmilkproducts.	K1
	CO2	knowthesalient featuresofmilk.	K2
	CO3	illustrate the ways to produce hygienic dairyproducts	K3
	CO4	comparethebenefitsoftraditionalandmoderndair yproducts	K4
	CO5	understandtherightwaystostoreandpreservedairy products	K5

BACHELOROFBUSINESSADMINISTRATION

PROGRAMMESPECIFICOUTCOMES:

PSO1	GetfamiliarizedwiththecoreconceptsofBusinessandManagement
PSO2	Abletoapplyleadershipprinciples tomanageinadiverseandglobalbusinessenvironment
PSO3	Exposuretorealbusinesssituationsthroughfield work,Industrialvisitsandprojects
PSO4	Demonstratethe abilitytoidentifyandevaluateethicalbusinesspractices
PSO5	DevelopManagerialand JobReadinessSkillstotakeupcareerinCorporates.

ExpectedCourseOutcomes:

Onthesuccessful completionofthecourse,student willbe ableto:

Number	**Courseoutcome**	**Knowledge Level**(According to Bloom'sTaxonomy)
CO1	examine and explain the management evolution and how itwillaffect futuremanagers.	K1
CO2	estimatetheconceptual frameworkofplanninganddecision-makingin dayto daylife.	K2
CO3	explainthevariousmanagerialfunctionstoachievethegoalsandobjectives of theorganization.	K1
CO4	analyze the theories of motivation, leadership andcommunication in a variety of circumstances and managementpracticesin organizations.	K4
CO5	identifyandexplain the importanceof themanagement process and identifysomeof thekeyskillsrequired forthecontemporarymanagement practice.	K3

K1-Remember; K2 -Understand;K3 -Apply;K4 -Analyze;

COURSE CODE	U21BAT12	BUSINESSCOMMUNICATION	L	T	P	C
CORE-II			5	-	-	4

ExpectedCourseOutcomes:

Onthesuccessfulcompletionofthecourse, studentswill beable to:

Number	Courseoutcome	KnowledgeLevel (According to Bloom'sTaxonomy)
CO1	learnand apply effective written communicationtechniques.	K3
CO2	reviewand refinecommunicationsskills.	K4
CO3	developanddelivereffectivepresentationsofletters.	K6
CO4	developanddraftcirculars.	K6
CO5	developskillsinreportwriting.	K6

K3-Apply;K4-Analyze;K6 –Create

COURSE CODE	U21BAT21	FINANCIALACCOUNTING	L	T	P	C
CORE–III			5	-	-	4

ExpectedCourseOutcomes:

Onthesuccessfulcompletionofthecourse, studentswill beable to:

Number	Courseoutcome	KnowledgeLevel(According toBloom'sTaxonomy)
CO1	recall the accounting concepts and understand the rules of the doubleentry system, journalizing and posting to the ledger in the businesstransactions.	K1
CO2	interpretthetrialbalance;identifytheerrorsandrec oncilethebankstatementbycash book.	K2
CO3	summariesthetrading, profit&lossaccountandbalancesheetwiththesupp ort of financial and accountingtransactions.	K5
CO4	illustratethedifferentmethodsofdepreciation.	K3

K1-Remember;K2-Understand;K3-Apply;K5 -Evaluate

COURSE CODE	U21BAT31	ORGANISATIONAL BEHAVIOUR	L	T	P	C
CORE-V			5	-	-	4

ExpectedCourseOutcomes:

Onthesuccessfulcompletionofthecourse, studentswill beable to:

Number	Courseoutcome	KnowledgeLevel (AccordingtoBloom'sTaxonomy)
CO1	understandtheimplicationsoforganizationalbehaviouronthe process of management	K2
CO2	analyzetheindividualbehaviourandIdentifytheDeterminantsofPersonality	K4
CO3	knowaboutthequalitiesofleadership	K2
CO4	understandthe theoriesof motivation	K2
CO5	evaluatetheorganizationalchange.	K5

K2-Understand; K4-Analyze;K5-Evaluate;

OURSECODE	U21BAA33	BUSINESSSTATISTICS	L	T	P	C
ALLIED-III			5	-	-	4

ExpectedCourseOutcomes:

Onthesuccessful completionofthecourse,student willbe ableto

Number	Courseoutcome	Knowledge Level(According to Bloom's Taxonomy)
CO1	knowthebasicconceptsofstatistics	K1
CO2	applythe data presentation tools of statistics	K3
CO3	evaluatethemeasures of statistics	K5
CO4	understandandcompute thesamplingdistributions	K2
CO5	summarizemethodsofcorrelationanalysis	K4

K1-Remember; K2 -Understand;K3-Apply; K4-Analyze;K5-Evaluate;

COURSE CODE	U21BAE31	COSTACCOUNTING	L	T	P	C
ELECTIVE -I			4	-	-	3

ExpectedCourseOutcomes:

Onthesuccessful completionofthecourse,student willbe ableto:

Number	Courseoutcome	Knowledge Level(Accordingto Bloom's Taxonomy)
CO1	understand the concept of cost accounting, Recognize therelationshipofcostandmanagementaccountingalongwitht heelements of cost concepts.	K2
CO2	describethecostsheetsforstorecontrolthrougheconomicorde rquantity, pricingand materialissues.	K5
CO3	describe the methods of Remuneration and IncentiveSchemesto labours	K5
CO4	understandtheCollection,Classification,Allocation,A pportionmentand Absorption ofoverheads.	K2
CO5	applytheprocesscostingandpreparation ofcostsheet	K3

K2-Understand;K3 -Apply; K5 -Evaluate;

COURS ECODE		TALENTANDKNOWLEDGE MANAGEMENT	L	T	P	C
ELECTIVE			4	-	-	3

ExpectedCourseOutcomes:

Onthesuccessful completionofthecourse,student willbe ableto:

Number	Courseoutcome	KnowledgeLevel (AccordingtoBlo om's Taxonomy)
CO1	understandtheconceptBranding&BrandAwareness,Equity	K2
CO2	helpthestudentsacquireknowledgeonBrandAdvertisement	K5
CO3	knowpros and consof brand extension	K5
CO4	AnalyseBrandpersonalityandequity	K4
CO5	Developthecriticaland analyticalskillsofstudentsinbrand	K3

K2-Understand; K3 -Apply; K4: Analyse K5-Evaluate;

COURSE CODE	U21BAT41	RESEARCHMETHODOLOGY	L	T	P	C
CORE-VI			4	-	-	4

ExpectedCourseOutcomes:

Onthesuccessfulcompletionofthecourse, studentswill beable to:

Number	Courseoutcome	Knowledge Level(Accordingto Bloom'sTaxonomy)
CO1	Understandthefundamental concepts of research, types andresearchprocess.	K2
CO2	summarizethesamplingdesignandscalingtechniques.	K2
CO3	construct a method for data collection and able to edit,code,classifyand tabulatethe collecteddata.	K3
CO4	analyzethecollecteddatatoproveordisprovethehypothesis.	K4
CO5	interpretthedata andpreparea research report.	K3

K2-Understand; K3-Apply; K4 -Analyze;

COURSE CODE	U21BAT42	PERSONALITYDEVELOPMENT	L	T	P	C
CORE-VII			4	-	-	4

ExpectedCourseOutcomes:

Onthesuccessfulcompletionofthecourse, studentswill beable to:

Number	Courseoutcome	KnowledgeLevel (Accordingto Bloom'sTaxonomy)
CO1	understandthedeterminants ofpersonality	K2
CO2	applythe basic TheoriesofMotivation	K3
CO3	understandtheCareerPlanning	K2
CO4	evaluatethe memoryskills	K5
CO5	createapositivethinking	K6

K2-Understand; K3-Apply;K5 -Evaluate;K6–Create

COURSE CODE	U21BAA44	GSTREGISTRATIONANDFILING(PRACTICAL)	L	T	P	C
ALLIED-IV			-	-	4	4

ExpectedCourseOutcomes:

Onthesuccessfulcompletionofthecourse, studentswill beable to:

Number	Courseoutcome	KnowledgeLevel(According to Bloom'sTaxonomy)
CO1	understandthebasic conceptsofGST	K2
CO2	applyGST ratesin varioustransactions	K3
CO3	calculate GSTcalculationsin accountingsoftwareTally	K5
CO4	evaluateof Tax inputcreditavailableto goods	K5
CO5	apply the practical knowledge dealings if interstatetransactionsofGST	K2

K2-Understand;K3 -Apply; K5 -Evaluate;

COURSE CODE	U21BAE41	MANAGEMENT INFORMATIONSYS TEM	L	T	P	C
ELECTIVE-II			3	-	-	3

ExpectedCourseOutcomes:

Onthesuccessful completionofthecourse, studentswill beable to:

Number	Courseoutcome	KnowledgeLevel (AccordingtoBloom'sTaxonomy)
CO1	apply modern tools, techniques and technologyfunctionallyand productivelyin ProfessionalActivities	K3
CO2	analyze,Design,Construct,ImplementandMaintain,Usable, Reliable and Cost-Effective Information Systems(IS) that support Operational, Managerial and StrategicactivitiesofOrganizations.	K4
CO3	Studyandevaluateexistingmanualandautomatedbusinesspr ocessesandidentifyopportunitiesforre-engineeringand/or automation.	K3
CO4	Coordinate confidently and competently with the usercommunityinIS requirementsanalysis/designactivities,provide guidance and technical support to end-usercomputingactivities.	K1

COURSE CODE	U21BAE42	BRANDMANAGMENT	L	T	P	C
ELECTIVE -II			4	-	-	3

ExpectedCourseOutcomes:

Onthesuccessful completionofthecourse,student willbe ableto:

Number	Courseoutcome	KnowledgeLevel(AccordingtoBloom's Taxonomy)
CO1	understandtheconceptBranding&BrandAwareness,Equity	K2
CO2	helpthestudentsacquireknowledgeonBrandAdvertisement	K5
CO3	knowpros and consof brand extension	K5
CO4	analyse Brandpersonalityandequity	K2
CO5	Developthecriticaland analyticalskillsofstudentsinbrand	K3

K2-Understand;K3-Apply;K5-Evaluate;

COURSE CODE	U21BAT51	PRODUCTIONMANAGEMENT	L	T	P	C
CORE-VIII			5	-	-	4

ExpectedCourseOutcomes:

Onthesuccessful completionofthecourse,student willbe ableto:

Number	Courseoutcome	KnowledgeLevel (AccordingtoBloom'sTaxonomy)
CO1	understandtheproductionsystem	K2
CO2	enumerate the production processes and productionplanningand control	K5
CO3	describetheplantlayoutsystem	K2
CO4	outlinemanagement issues inwork andmethod study	K1
CO5	discussthequalitycontrol,TotalQualityManagement,Benchmarking	K4

K1-Remember; K2 -Understand;K4-Analyze;K5 -Evaluate

COURSECODE	U21BAT52	MANAGEMENTACCOUNTING	L	T	P	C
CORE-IX			5	-	-	4

ExpectedCourseOutcomes:

Onthesuccessful completionofthecourse,student willbe ableto:

Number	Courseoutcome	Knowledge Level(According to Bloom'sTaxonomy)
CO1	understandtheconceptofmanagementaccounting	K2
CO2	measurethefinancialstatements byusingvariousfinancialratios.	K5
CO3	producevarioustypesofbudgets	K3
CO4	simplifythefund flowand cash flow statements bycalculatingfundsandcash from operations	K5
CO5	understandthemarginal costingforcost volumeprofit	K2

K2-Understand;K3 -Apply; K5 -Evaluate;

COURSE CODE	U21BAT53	MARKETINGMANAGEMENT	L	T	P	C
CORE-X			5	-	-	4

ExpectedCourseOutcomes:

Onthesuccessful completionofthecourse,student willbe ableto:

Number	Courseoutcome	KnowledgeLevel (AccordingtoBloom's Taxonomy)
CO1	recognizethesignificanceof marketinganditsroleineconomicdevelopment	K1
CO2	recognize how market strategy works, market segmentationandproductmixhaveanimpactonbuyingbehaviour	K2
CO3	understandProductlifecycle(PLC)andstrategies	K3
CO4	apply marketing concepts, pricing for the development ofmarketingfunction.	K3
CO5	demonstratethecriticalthinkingskillsandanalyzethedistribution channels	K3

K1-Remember; K2-Understand; K3– Apply

COURSE CODE	U21BAT54	HUMANRESOURCE MANAGEMENT	L	T	P	C
CORE-XI			5	-	-	4

ExpectedCourseOutcomes:

Onthesuccessfulcompletionofthecourse, studentswill beable to:

Number	Courseoutcome	KnowledgeLevel (AccordingtoBloom'sTaxonomy)
CO1	analyzetheprocessofJoband itsimportanceasa foundationofhuman resourcemanagement practice.	K3
CO2	anderstandthe Humanresourceplanning	K4
CO3	apply the policies and practice of the primary areas of humanresourcemanagement,includingstaffing,trainingandcompensation.	K3
CO4	understandthewageandsalaryadministration	K4
CO5	understandtheemployee grievancehandlingsystem	K2

K2-Understand; K3-Apply;K4-Analyze

COURSE CODE	U21BAT55	BUSINESSLAW	L	T	P	C
CORE-XII			5	-	-	4

ExpectedCourseOutcomes:

Onthesuccessfulcompletionofthecourse, studentswill beable to:

Number	Courseoutcome	KnowledgeLevel (According to Bloom'sTaxonomy)
CO1	Develop an understanding of business law in the globalcontext	K1
CO2	Knowtherelevantlegalterms ofthecontractAct	K2
CO3	Constructtherelationshipofethics andlawinagency	K3
CO4	Applybasicprinciples of lawto thesaleofgoods	K4
CO5	Understandtherules,andregulationsrelatedtopartnershipand companyform ofbusiness	K5

K1-Remember; K2 -Understand;K3-Apply; K4-Analyze;K5– Evaluate

COURSE CODE	U21BAE53	STRATEGICMANAGEMENT	L	T	P	C
ELECTIVE -III			3	-	-	3

ExpectedCourseOutcomes:

Onthesuccessfulcompletionofthecourse, studentswill beable to:

Number	Courseoutcome	KnowledgeLevel (According to Bloom'sTaxonomy)
CO1	synthesizeknowledgefromotherbusinesscoursesintoacomprehensive understanding	K1
CO2	provide a basic understanding of the nature anddynamicsofthestrategyformulationprocesses.	K2
CO3	encourage students to think critically andstrategically	K3
CO4	developtheabilityto identifystrategicissues anddesignappropriatecoursesof action.	K3
CO5	enabletoevaluatethestrategiesbasedonthebusiness	K5

K1-Remember;K2-Understand;K3-Apply;K5 -Evaluate

COURSE CODE	U21BAE52	INTERNATIONALBUSINESS	L	T	P	C
ELECTIVE -III			4	-	-	3

Onthesuccessfulcompletion ofthecourse,student willbeableto:

Number	Courseoutcome	KnowledgeLevel (AccordingtoBloom's Taxonomy)
CO1	understandthebasicconcept Internationaltrade	K2
CO2	Studyand evaluatethe tradeand tariff policies	K5
CO3	knowthenuancesofinternationaltrade	K3
CO4	analyzetherolwofinternational institutions	K4
CO5	developa strategyforinternational trade	K5

K2-Understand;K3-Apply;K4:Analyse K5-Evaluate;

COURSE CODE	U21BAS53	ENTREPRENEURSHIPDEVELOPMENT (PRACTICALS)	L	T	P	C
SBE–III			-	-	2	2

ExpectedCourseOutcomes:

Onthesuccessfulcompletion ofthecourse, studentswill beable to:

Number	Courseoutcome	KnowledgeLevel (According toBloom'sTaxonomy)
CO1	definewhoisanEntrepreneurandwhathisorher characteristicfeaturesare, what skills madethem successful	K1
CO2	foster the students in the areas of entrepreneurial growth andequipthemwithdifferententrepreneurialdevelopmentprogrammes.	K2
CO3	identifythedifferentinstitutionsthatsupportingentrepreneurs	K4
CO4	discriminatethebenefits RegulationsgoverningSSI	K5
CO5	understandtheconceptsofWomenEntrepreneurs	K2

K1-Remember; K2 -Understand;K4-Analyze;K5 -Evaluate

COURSE CODE	U21BAT61	FINANCIALMANAGEMENT	L	T	P	C
COREXIII			5	-	-	4

ExpectedCourseOutcomes:

Onthesuccessfulcompletionofthecourse, studentswill beable to:

Number	Courseoutcome	KnowledgeLevel (AccordingtoBloom's Taxonomy)
CO1	use business finance terms and concepts whilecommunicating.	K3
CO2	explainthefinancialconceptsusedinmakingafinancialmanagementdecision.	K4
CO3	use effective methods to promote respect and relationship forfinancialdeals.	K3
CO4	utilizetheinformation tomaximizeandmanagefinance.	K1

COURSE CODE	U21BAT62	TOTALQUALITYMANAGEMENT	L	T	P	C
CORE-XIV			5	-	-	4

ExpectedCourseOutcomes:

Onthesuccessfulcompletion ofthe course, studentswill beable to:

Number	Courseoutcome	KnowledgeLevel (According to Bloom'sTaxonomy)
CO1	understandthebasic conceptsofTQM	K2
CO2	knowtheStrategicqualityplanning	K1
CO3	evaluate the traditional tools and new management toolsofquality	K5
CO4	applythe QualityFunctionDevelopment	K3
CO5	understandtheQualityauditingIMS	K2

K1-Remember;K2-Understand; K3-Apply; K5-Evaluate;

COURSE CODE	U21BAT65	SKILL ENHANCEMENT &EMPLOYABILITYORIENTATION	L	T	P	C
COREXVII			4	-	-	5

ExpectedCourseOutcomes:

Onthesuccessful completionofthecourse,student willbe ableto:

Number	Courseoutcome	KnowledgeLevel (AccordingtoBloom's Taxonomy)
CO1	developingandsustainingemployabilityskills	K2
CO2	improveeffectivecommunicationskills	K5
CO3	developeffectivewrittencommunications kills	K5
CO4	enablestudentstoincreaseknowledgeonselfma nagement	K2
CO5	buildabaseforlearningcritical&creativethinkingskills	K3

COURSE CODE	U21BAE61	SERVICESMARKETING	L	T	P	C
ELECTIVE IV			3	-	-	3

ExpectedCourseOutcomes:

Onthesuccessfulcompletionofthecourse, studentswill beable to:

Number	Courseoutcome	Knowledge Level (According toBloom'sTaxonomy)
CO1	understandthebasicconceptsofservicemarketing	K3
CO2	examinethenatureofservices,anddistinguishbetweenproductsandservices	K4
CO3	identifythe major elements needed to improvethemarketingofservices	K3
CO4	understandthepricinginservices	K1
CO5	develop an understanding of the roles of relationship marketing andcustomer service in adding value to the customer's perception of aservice	K2

K1-Remember;K2 -Understand;K3-Apply; K4-Analyze

COURSECODE	U21BAE62	CONSUMERBEHAVIOUR	L	T	P	C
ELECTIVE -IV			3	-	-	3

ExpectedCourseOutcomes:

Onthesuccessful completionofthe course, studentswill beableto:

Number	Courseoutcome	KnowledgeLevel (AccordingtoBloom'sTaxonomy)
CO1	understandthebasic conceptsofConsumer Behaviour	K1
CO2	identifythemotivesofconsumerbehaviourthroughconsumerresearch	K2
CO3	frame strategies for the consumer by learning the attitudes ofconsumer	K4

CO4	applystrategicknowledgebased onthelifestyleofconsumer	K3
CO5	develop consumerdecision-makingmodel	K6

B.Sc Maths

ProgrammeSpecificOutcomes:

PSO. No	uponcompletionofthiscoursethestudentswillbeableto	PO MAPPED
PSO-1	perceivetherelevanceofthesubjectinvariousfields suchasscience,technology,businessandindustries.	PO-3
PSO-2	interpretthegraphicalandnumericaldataandapplytheanalytical, theoretical and computational skills to solve problems.	PO-1 PO-2 PO-3
PSO-3	acquaint with the knowledge on the effects of changing conditions in real life systems to construct mathematical models and excel in various decision making tasks	PO-2 PO-3
PSO-4	understand mathematical ideas and foundations of mathematicstodevelopproficiencyinMathematics	PO-4
PSO-5	engageinactivitiesdirectlybenefitingthebroadercommunity and acquire job oriented knowledge	PO-3 PO-5

COURSE CODE	**U21MTT11**	**CALCULUS**	**L**	**T**	**P**	**C**
CORE-I			**5**	**-**	**-**	**4**

CourseOutcome:

	Onthesuccessfulcoursecompletion,studentswillbeableto:	Cognitive Level
CO1	identifyareas inMathematics andstudyof functionsexpansion	K1
CO2	understandtheconceptsofRadiusofCurvature,CartesianForm, p - r equations	K2
CO3	applytheconceptofchangeofvariablesindoubleandtriple integrals.	K3
CO4	applydouble,tripleintegraltofindtheareaandvolume respectively.	K3
CO5	applytheBetaandgammafunctiontosolvethemultiple integrals.	K4

K1-Remember;K2 -Understand;K3-Apply;K4-Analyze; K5-Evaluate;K6– Create

COURSE CODE	U21MTT12	CLASSICALALGEBRA	L	T	P	C
CORE-II			6	-	-	4

CourseOutcome:

	Onthesuccessfulcoursecompletion,studentswillbeableto:	Cognitive Level
CO1	knowledgeinBinomial,Exponential,Logarithmicseriesand summationofseries	K1
CO2	knowledgeinmethodstofindanapproximaterootsofthe equations	K2
CO3	applythealltesttofindtheconvergenceordivergenceofan infinite series.	K3
CO4	findthenumberofpositiveandnegativerootsofpolynomial equation	K3
CO5	analyzetherelationbetweenrootsandcoefficientsofthe polynomial equations	K4

K1-Remember;K2 -Understand;K3-Apply;K4-Analyze; K5-Evaluate;K6– Create

COURSE CODE	U21PHA11	ANCILLARYPHYSICS	L	T	P	C
ALLIED I			5	-	-	4

CourseOutcomes(CO):

CO	Learningoutcome	Remarks
CO1	Analyzecenterofgravity	K4
CO2	Learnaboutmodulus,viscosityandsurfacetensionof materials	K2
CO3	Studythecharacteristicsofdiodeandtransistor	K1
CO4	Understandaboutaberrationanddifferentproperties of lenses	K2
CO5	Gainknowledgeaboutatomicmodelandbasic nuclear properties	K2

K1-RememberK2-Understand K3-Apply K4-Analyze K5-Evaluate

COURSE CODE	U21MTT21	ANALYTICALGEOMETRY3D	L	T	P	C
COREIII			5	-	-	4

CourseOutcome:

	Onthesuccessfulcoursecompletion,studentswillbeableto	Cognitive Level
CO1	familiarize the concept of direction cosines and projections	K1
CO2	identifydifferentformsofequationsof plane.	K1
CO3	analyzethesymmetricformofequationsofaline andthe angle between a line and a plane.	K3
CO4	acquiretheknowledgeofcoplanarlines,skewlinesand its properties.	K3,K4
CO5	apply concept of a sphere and circle to determine theirequations.	K4

K1-Remember;K2-Understand;K3-Apply;K4-Analyze;K5-Evaluate; K6 – Create

COURSE CODE	U21PHA22	PHYSICSPRACTICAL	L	T	P	C
ALLIEDII			-	-	5	4

CourseOutcomes(CO):

CO	Learningoutcome	Remarks
CO1	AbletoEstimateErrors	K3
CO2	Analyzedimensionalchangeofbar	K4
CO3	Determineviscosityofliquid	K4
CO4	StudythecharacteristicsofdiodeandICs	K3
CO5	Determinesurfacetensionofliquis	K4

K1-Remember K2-Understand K3-Apply K4-Analyze K5-Evaluate

COURSE CODE	U21MTT31	VECTORCALCULUS,FOURIERSERIES AND FOURIER TRANSFORM	L	T	P	C
CORE-V			5	-	-	4

CourseOutcome:

	Onthesuccessfulcoursecompletion,studentswillbeableto	Cognitive Level
CO1	demonstratetheoperator ofvector	K1
CO2	applydoubleand tripleintegration	K2
CO3	demonstratetheFourier Transforms	K3
CO4	analysishalfrangeseries	K3
CO5	integralequationsofFourierTransforms	K4

K1-Remember;K2 -Understand;K3-Apply;K4-Analyze; K5-Evaluate;K6– Create

COURSE CODE	U21MTA33	ANCILLARYMATHEMATICAL STATISTICS-I	L	T	P	C
CORE-V			5	-	-	4

CourseOutcome:

	Onthesuccessfulcoursecompletion,studentswillbeableto	CognitiveLevel
CO1	calculatemean,medianand mode.	K1
CO2	befamiliarwithelementarystatisticalmethodsofanalysis of data and interpret them.	K1,K2
CO3	understandtheconceptofcorrelationandregression.	K3
CO4	relateBinomial,PoissonandNormaldistributions.	K3
CO5	developproblemsolvingskillonapplyingstatistical methods to real problems.	K4

K1-Remember;K2 -Understand;K3-Apply;K4-Analyze; K5-Evaluate;K6– Create

COURSE CODE	U21MTE311	CHOICE I	L	T	P	C
ELECTIVEI		NUMERICALMETHODS	4	-	-	3

CourseOutcome:

	Onthesuccessfulcoursecompletion,studentswillbeableto	Cognitive Level
CO1	understandtheequationsusingdifferentmethodsunder differ conditionsandnumericalsolutionsofsystemalgebraicequation	K1
CO2	applyvarious interpolationmethods andfinitedifferentconcepts	K3
CO3	analysedifferentiationandintegrationwheneverandwhereever routinemethods arenot applicable	K4

COURSE CODE	U21MTE312	CHOICEII	L	T	P	C
ELECTIVEI		STOCHASTICPROCESS	4	-	-	3

CourseOutcome:

	Onthesuccessfulcoursecompletion,studentswillbeableto	Cognitive Level
CO1	rememberrandomvariableswithProbabilisticcondition	K1
CO2	understandMarkovchains,Markovprocessandalternate approach	K2
CO3	applythe conceptsinBirthandDeathDistributionProcess	K3
CO4	identifythetypeofthe DifferentialEquationsforAWiener Process -Kolmogorov Equation	K3
CO5	provethesamplingdistributiontheory	K3,K5

K1-Remember;K2 -Understand;K3-Apply;K4-Analyze; K5-Evaluate;K6– Create

COURSE CODE	U21MTE313	CHOICEIII	L	T	P	C
ELECTIVEI		PRINCIPLESOFEXPERIMENTAL DESIGN	4	-	-	3

CourseOutcome:

	Onthesuccessfulcoursecompletion,studentswillbeableto	Cognitive Level
CO1	acquireskillsinstatisticalanalysis.	K1
CO2	calculatevaluesthroughdesigns.	K2
CO3	applytheconceptsthrough models.	K3
CO4	comparingresultsin Latinsquaredesign.	K3,K4
CO5	calculatingstandard errors.	K3,K5

K1-Remember;K2 -Understand;K3-Apply;K4-Analyze; K5-Evaluate;K6– Create

COURSE CODE	U21MTT42	SEQUENCEANDSERIES	L	T	P	C
COREVII			4	-	-	4

CourseOutcome:

	Onthesuccessfulcoursecompletion,studentswillbeableto	Cognitive Level
CO1	understandthefundamentalprinciplesof Analysis	K2
CO2	identifyconvergence anddivergenceof series	K2
CO3	applyvarious tests to findthelimit of aseries	K3
CO4	distinguishbetweenabsoluteconvergenceandordinary convergenceofaSeries.	K4
CO5	computetheradiusof convergenceofthepower series.	K4,K5

K1-Remember;K2 -Understand;K3-Apply;K4-Analyze; K5-Evaluate;K6– Create

COURSE CODE	U21BAT22	BUSINESSENVIRONMENT	L	T	P	C
CORE-IV			5	-	-	4

ExpectedCourseOutcomes:

Onthesuccessfulcompletionofthecourse, studentswill beable to:

Number	Courseoutcome	KnowledgeLevel (According to Bloom'sTaxonomy)
CO1	develop an understandingof the business environment	K2
CO2	explaintheGovernmentandpolitical environment	K2
CO3	understandtherelationsofsocietyandculturetothebusi ness	K3
CO4	comprehendtheeconomicalenvironmentalfactorsthatarecon duciveto the businesses	K4
CO5	have a simple and basic comprehension of the internationalscenarioabouttheborderlessbusinessworldduetot echnologicalchanges	K2

K2-Understand; K3-Apply; K4 -Analyze;

COURSE CODE	U21MTT41	STATICS	L	T	P	C
COREVI			4	-	-	4

CourseOutcome:

Onthesuccessfulcoursecompletion,studentswillbeableto		Cognitive Level
CO1	understandtheactionofforcesonrigid bodies.	K1
CO2	analyzetheconceptofparallelforcesand moments.	K2
CO3	computeequationofcentral orbit.	K3
CO4	understandtheconceptoffriction.	K2
CO5	computeequationofequilibriumof strings.	K3

K1-Remember;K2 -Understand;K3-Apply;K4-Analyze; K5-Evaluate;K6– Create

COURSE CODE	U21MTT42	SEQUENCEANDSERIES	L	T	P	C
COREVII			4	-	-	4

CourseOutcome:

Onthesuccessfulcoursecompletion,studentswillbeableto		Cognitive Level
CO1	understandthefundamentalprinciplesof Analysis	K2
CO2	identifyconvergence anddivergenceof series	K2
CO3	applyvarious tests to findthelimit of aseries	K3
CO4	distinguishbetweenabsoluteconvergenceandordinary convergenceofaSeries.	K4
CO5	computetheradiusof convergenceofthepower series.	K4,K5

K1-Remember;K2 -Understand;K3-Apply;K4-Analyze; K5-Evaluate;K6– Create

COURSE CODE	U21MTA44	ANCILLARYMATHEMATICAL STATISTICS - II	L	T	P	C
ALLIEDIV			4	-	-	4

CourseOutcome:

Onthesuccessfulcoursecompletion,studentswillbeableto		Cognitive Level
CO1	understandTheoreticalContinuous Distributions	K2
CO2	estimatetheparametersofpopulationonthebasisofgiven information, Correlation and regression.	K3
CO3	makedecisionusingt-testandF-test,z -test.	K4
CO4	analyzetheassociationbetweentwoormoregroupsand populations.	K4
CO5	evaluatesampledistributions	K5

K1-Remember;K2 -Understand;K3-Apply;K4-Analyze; K5-Evaluate;K6– Create

COURSE CODE	U21MTE421	CHOICE I	L	T	P	C
ELECTIVE-II		PROGRAMMINGINC&C++	3	-	-	3

CourseOutcome:

Onthesuccessfulcoursecompletion,studentswillbeableto		Cognitive Level
CO1	understandtheconceptsandProgramming	K2
CO2	discusstherepresentationandappropriateuseofprimitive data types	K1
CO3	describetheobject-orientedprogrammingapproachinconnection with **C**++	K2
CO4	applythe conceptsofobject-oriented programming	K3
CO5	evaluatetheprocessofdatafilemanipulationsusing**C**++	K5

K1-Remember;K2-Understand;K3-Apply;K4-Analyze; K5-Evaluate;K6– Create

COURSE CODE	U21MTE422	CHOICEII	L	T	P	C
ELECTIVE-II		AUTOMATATHEORY	3	-	-	3

CourseOutcome:

Onthesuccessfulcoursecompletion,studentswillbeable to		Cognitive Level
CO1	understandbasicconceptsinLattices,formallanguageand automata theory	K2
CO2	demonstrate abstract models of computing, including deterministic (DFA), non-deterministic (NFA), Push Down Automata(PDA)	K3
CO3	apply theoreticalknowledgerelatepracticalproblemsto languages and automata	K4
CO4	analyze the logic and methods behind grammars and recognizers for different formal languages	K5
CO5	formalizethestructureofagivenformallanguageusingregular expressionsandcontextfreegrammarsandimplementationofa lexical analyzer.	K5

K1-Remember;K2 -Understand;K3-Apply;K4-Analyze; K5-Evaluate;K6– Create

COURSE CODE	U21MTE423	CHOICEIII	L	T	P	C
ELECTIVE-II		KNOWLEDGEFORINDUSTRY	3	-	-	3

CourseOutcome:

	Onthesuccessfulcoursecompletion,studentswillbeableto	Cognitive Level
CO1	knowthereasonforadoptingIndustryknowledge4.0and Artificial Intelligence	K1
CO2	understandtheneedfordigital transformation	K2
CO3	applytheindustry4.0tools	K3
CO4	analyzetheapplications ofBigData	K4
CO5	examinetheapplicationsandsecurityofIoT Applications	K4

K1-Remember;K2 -Understand;K3-Apply;K4-Analyze; K5-Evaluate;K6– Create

COURSE CODE	U21MTT51	DYNAMICS	L	T	P	C
CORE- VIII			5	-	-	4

CourseOutcome:

	Onthesuccessfulcoursecompletion,studentswillbeableto	Cognitive Level
CO1	determinethepathandrangeofaprojectileinany direction.	K1
CO2	understandtheconceptofenvelopingparabola.	K2
CO3	knowledgeaboutcollisionofelasticbodies.	K2
CO4	computeequationofsimpleharmonicequation.	K3
CO5	understandthemotionunderthecentralforces.	K2,K4

K1-Remember;K2 -Understand;K3-Apply;K4-Analyze; K5-Evaluate;K6– Create

COURSE CODE	U21MTT52	ABSTRACTALGEBRA	L	T	P	C
CORE-IX			5	-	-	4

CourseOutcome:

	Onthesuccessfulcoursecompletion,studentswillbeableto	Cognitive Level
CO1	KnowledgeofelementaryconceptsinAbstractAlgebra	K1
CO2	Useappropriatetechniquesandreasoningtoprovethe properties of groups	K2
CO3	Understanding theconcept ofhomomorphismand isomorphism in groups	K1,K2
CO4	Extendtheresultsofgroupsto rings	K3
CO5	Extendtheresultsofringstofields	K4

K1-Remember;K2 -Understand;K3-Apply;K4-Analyze; K5-Evaluate;K6-Create

COURSE CODE	U21MTT53	REALANALYSIS	L	T	P	C
CORE-X			5	-	-	4

CourseOutcome:

	Onthesuccessfulcoursecompletion,studentswillbeableto:	Cognitive Level
CO1	Understandthefundamentalpropertiesofrealnumberstothe formal development of real analysis	K2
CO2	Extendedrealnumbersysteminthecomplexfielddeveloping the theory of real analysis	K3
CO3	Demonstrateanunderstandinglimitandhowtheyare use beingsequencesandseries.	K3
CO4	Analysisvariousmathematicalproofsofbasicresultsin connectedness.	K4
CO5	Evaluatevariousmathematicalproofsofbasicresultsin continuity.	K4,K5

K1-Remember;K2 -Understand;K3-Apply;K4-Analyze; K5-Evaluate;K6– Create

COURSE CODE	U21MTT54	OPERATIONSRESEARCHI	L	T	P	C
CORE-XI			-	5	-	4

CourseOutcome:

	Onthesuccessfulcoursecompletion,studentswillbeableto	Cognitive Level
CO1	understandtheapplicationofORandframeaLPProblemwith solution – graphic and through solver add in excel	K1
CO2	analyzeandinterpretresultsoftransportationandproblemusing appropriate method	K2
CO3	evaluatesimplemodel ofL.P.P.	K3
CO4	solutionsofassignmentandproblemusingappropriatemethod	K3
CO5	evaluate the dynamics of inventory managements principles, concepts of customer demand, distribution and product transformation process	K4,K5

K1-Remember;K2 -Understand;K3-Apply;K4-Analyze; K5-Evaluate;K6– Create

COURSE CODE	U21MTT55	THEORYOFNUMBERS	L	T	P	C
CORE-XII			5	-	-	4

CourseOutcome:

	Onthesuccessfulcoursecompletion,studentswillbeableto:	Cognitive Level
CO1	Understandfactualknowledgeincludingthemathematicalnotationand terminology of number theory.	K2
CO2	Construct mathematicalproofsofstatementandfind counter examples to false statements in Number Theory.	K2
CO3	Applytheoreticalknowledgetoproblemofcomputersecurity	K3
CO4	Analyze thelogicandmethodsbehindthemajorproofsinnumber theory	K4
CO5	Determinemultiplicativeinverses,modulonandusetosolvelinear congruences	K5

K1-Remember;K2 -Understand;K3-Apply;K4-Analyze; K5-Evaluate;K6– Create

COURSE CODE	U21MTE531	CHOICE-I	L	T	P	C
ELECTIVEIII		FUZZYSETSANDFUZZYNUMBERS	3	-	-	3

CourseOutcome:

	Onthesuccessfulcoursecompletion,studentswillbeableto	Cognitive Level
CO1	understandconceptsbetweenclassicalsetsandfuzzy sets.	K1
CO2	understandthemembership functions.	K1
CO3	understandandApplyof basicoperations onfuzzysets.	K1,K3
CO4	analyzetheproperties andprinciples offuzzysets.	K4
CO5	evaluatearithmetical abilityon fuzzynumbers.	K5

K1-Remember;K2 -Understand;K3-Apply;K4-Analyze; K5-Evaluate;K6– Create

COURSE CODE	U21MTE532	CHOICE-II	L	T	P	C
ELECTIVEIII		MATHEMATICALMODELLING	3	-	-	3

CourseOutcome:

	Onthesuccessfulcoursecompletion,studentswillbeableto	Cognitive Level
CO1	understand basic definitions from Mathematical Modelling through Ordinary Differential Equations of Firstorder	K2
CO2	understandMathematicalModellingthroughOrdinary Differential Equations of First order problems	K2,K3
CO3	apply Mathematical Modelling through Ordinary DifferentialEquationsofFirstorderto applications	K2,K3
CO4	understand simple models through Difference Equations	K2
CO5	evaluatemodelsthroughGraphs	K2,K3,K5

K1-Remember;K2 -Understand;K3-Apply;K4-Analyze; K5-Evaluate;K6– Create

COURSE CODE	U21MTS53	MATHEMATICALAPTITUDE	L	T	P	C
SKILLBASED ELECTIVE III			2	-	-	2

CourseOutcome:

	Onthesuccessfulcoursecompletion,studentswillbeableto	Cognitive Level
CO1	understandthebasicconceptsofQuantitativeAbility	K2
CO2	understandthebasicconceptsofLogicalReasoning Skills.	K2
CO3	acquiresatisfactorycompetencyinuseofVerbal Reasoning	K2
CO4	solvecampusplacementsaptitudepaperscoveringQuantitative Ability, Logical Reasoning and Verbal Ability	K3,K4
CO5	competeinVarious competitiveexams	K3,K4

K1-Remember:K2-Understand:K3-Apply,K4-Analyse,K5-Evaluate;K6-create

COURSE CODE	U21MTT61	LINEARALGEBRA	L	T	P	C
COREXIII			5	-	-	4

CourseOutcome:

Onthesuccessfulcoursecompletion,studentswillbeableto		Cognitive Level
CO1	understandVectorSpace,QuotientspaceDirectsum,linear span and linear independence, basis and inner product.	K1,K2
CO2	applythelineartransformations,rank,nullity.	K3
CO3	findthecharacteristicequation,eigenvaluesandeigen vectors of a matrix.	K3
CO4	proveCayley-Hamiltontheorem,Schwartzinequality, Gramschmidt orthogonalisation process.	K3
CO5	evaluatethesystemofsimultaneouslinearequations.	K5

K1-Remember;K2 -Understand;K3-Apply;K4-Analyze; K5-Evaluate;K6– Create

COURSE CODE	U21MTT62	COMPLEXANALYSIS	L	T	P	C
COREXIV			5	-	-	4

CourseOutcome:

Onthesuccessfulcoursecompletion,studentswillbeableto		Cognitive Level
CO1	remembersums,products,quotients,conjugate,modulus,and argument of complex numbers and exponentials andintegral powers of complex numbers	K1
CO2	understand the significance of differentiability for complex functionsandbefamiliarwiththeCauchy-Riemannequations.	K2
CO3	findresiduesandevaluatecomplexintegrals,realintegralsusing the residue theorem.	K3
CO4	applyCauchy‘sresiduefunctionsandproblem.	K3,K4
CO5	determinewhetheragivenfunctionis analytic.	K5

K1-Remember;K2 -Understand;K3-Apply;K4-Analyze; K5-Evaluate;K6– Create

COURSE CODE	U21MTT63	OPERATIONRESEARCHII	L	T	P	C
COREXV			5	-	-	4

CourseOutcome:

Onthesuccessfulcoursecompletion,studentswillbeableto		CognitiveLevel
CO1	rememberthe natureandfeatureofOperations Research	K1
CO2	findthereplacementperiodofequipmentthatfails suddenly/gradually	K2
CO3	findEOQproblemswith pricebreaks	K2,K3
CO4	find inventory decisions costs using deterministic inventory problems with no shortages /with shortages	K3
CO5	understandandevaluateofCPMandPERT DefinebasiccomponentsofNetworkandfind critical path	K1,K3,K5

K1-Remember;K2-Understand;K3-Apply;K4-Analyze; K5-Evaluate;K6– Create

COURSE CODE	U21MTT64	GRAPHTHEORY	L	T	P	C
COREXVI			5	-	-	4

CourseOutcome:

Onthesuccessfulcoursecompletion,studentswillbeableto		Cognitive Level
CO1	rememberandunderstandthetheoreticalknowledge of graph theory to solve problems.	K1,K2
CO2	understand theories and concepts to test and validate intuition and independent mathematical thinking in problem solving.	K2
CO3	applynetworksusingthemainconceptsofgraph theory.	K3
CO4	usedefinitionsingraphtheorytoAnalyzeexamples and to distinguish examples from non-example.	K4
CO5	evaluategraphtheoryinacoherentandtechnically accurate manner.	K5

COURSE CODE	U21MTT65	DISCRETEMATHEMATICS	L	T	P	C
COREXVII			5	-	-	4

CourseOutcome:

Onthesuccessfulcoursecompletion,studentswillbeableto		Cognitive Level
CO1	understandingofsomeLogictruth tables	K2
CO2	prove/definebasicnormalforms	K3
CO3	toanalysestheconcepts offreeandboundvariable formulas	K4
CO4	understandingtheconceptsof Grammars	K4
CO5	basicconceptsofLanguagesandbasicdefinitionsof Automata	K6

K1-Remember:K2-Understand:K3-Apply,K4-Analyse,K5-Evaluate;K6-create

COURSE CODE	U21MTE641	CHOICE-I	L	T	P	C
ELECTIVE-IV		ASTRONOMY	3	-	-	3

CourseOutcome:

Onthesuccessfulcoursecompletion,studentswillbeableto		Cognitive Level
CO1	understandingaboutnatural science	K2
CO2	knowledgeaboutthecelestialobjects	K3
CO3	toanalysestheequationoftimeandseasons	K4
CO4	categorizevariousmeans insolvingTime	K4
CO5	basicconceptsofcalendarandconservationTime	K6

COURSE CODE	U21BAA22	COMPUTER APPLICATIONS-TALLY(PRACTICALS)	L	T	P	C
ALLIED–II			-	-	5	4

ExpectedCourseOutcomes:

Onthesuccessfulcompletion ofthecourse, studentswill beable to:

Number	Courseoutcome	KnowledgeLevel (According to Bloom'sTaxonomy)
CO1	useTallyto createpersonalbusinessdocumentsfollowingcurrentprofessional and/orindustrystandards.	K2
CO2	createscientificandtechnical documentsincorporatingthebillingprocedures	K2
CO3	developentriesfor creationofvouchers.	K3
CO4	Designbillsforimplementationoftaxationaspects.	K4
CO5	designandconstructfinancialstatementsafterconsideringtaxes andGST.	K5

K1-Remember; K2 -Understand;K3-Apply; K4-Analyze;K5-Evaluate;

COURSE CODE	U21MTS64	OPERATIONSRESEARCHLAB	L	T	P	C
SKILL BASED ELECTIVE-IV			2	-	-	2

CourseOutcome:

	Onthesuccessfulcoursecompletion,studentswillbeableto	Cognitive Level
CO1	understandthebasicconceptsandapplicationofoperations research in various fields	K1
CO2	knowprinciplesofconstructionofmathematicalmodelsof conflicting situations.	K2
CO3	analyzetherelationship between alinearprogram anditsdual	K3
CO4	techniquesconstructivelytomakeeffectivedecisionsin business and solve problems in industry	K4
CO5	buildandsolveallproblemsbyusingsoftware.	K4

K1-Remember:K2-Understand:K3-Apply,K4-Analyse,K5-Evaluate;K6-create

B.Sc.FOODS&NUTRITION

Course Code	U21FNT11	FOODSCIENCE	L	T	P	C
CORE-I			5	-	-	4

COURSEOUTCOMES:

Onsuccessfulcompletionofthecourse,thestudentswillbeabletogainknowledge about

K2	**CO1**	energyrequirementsandtheRecommendedDietaryAllowances.
K2	**CO2**	nutritivevalue,understandthecookingqualityfactors,anddevelop skillsinthepreparationandstorageofmilkandeggproducts.
K3	**CO3**	nutritional classification, understand the changes in pigments andacquire skills in preserving nutrients and pigments in the processingand storageofvegetablesandfruits.
K4	**CO4**	determinethesmokingpointofanycookingoilsandthestagesof sugarcookery
K5	**CO5**	Assesstheeffectoftheadditionofacid,fat,salt,water,andsugar onthetextureoffleshfoodsquality.

Course Code	U21FNP11	FOODSCIENCEPRACTICAL	L	T	P	C
CORE-II			-	-	6	4

COURSEOUTCOMES

Onsuccessfulcompletionofthecourse,thestudentswillbeabletogainknowledgeabout

K1	CO1	fundamentalsofcereals,pulses,fruits&vegetableprocessing,equip ment,andproducts.
K2	CO2	Demonstratethedifferentmethodsofcooking.
K3	CO3	ChooseAppropriateCookingMethodtoConserveNutrients.
K4	CO4	Evaluatethebasicmethodsandprinciplesinvolvedincooking.
K6	CO5	evaluatethechangeofpigmentduringcooking

Course Code	U21FNT22	HUMANPHYSIOLOGY	L	T	P	C
CORE-IV			5	-	-	4

COURSEOUTCOMES:

Onsuccessfulcompletionofthecourse,thestudentswillbeabletogainknowledgeabout

K2	CO1	UnderstandtheStructureandFunctionsofthevariousorgansystems of thebody.
K2	CO2	Comparethedigestiveandexcretorysystemsandinferthemechanisms ofdigestionandexcretioninhumanbeings.
K3	CO3	RelatetheStructurewithFunctionsofthetissuesandorgans.
K4	CO4	ComprehendtheMechanismofActionofOrgans.
K4	CO5	Discusstheroleofhormonesandfunctionsofhumanrepro ductive System.

Course Code	U21FNT31	NUTRITIONTHROUGHLIFECYCLE	L	T	P	C
CORE-V			5	-	-	4

COURSEOUTCOMES

Onsuccessfulcompletionofthecourse,thestudentswillbeabletogainknowledgeabout

K2	**CO1**	Physiologicalchangesandhormonesareinvolvedduringpregnancy andlactation.
K3	**CO2**	Planahealthyfoodchoiceforphysical,physiologicalpsychologicala spectsininfancy.
K4	**CO3**	thestudentswillbe abletorelatenutrientneedstodevelopmentalstagesandplandietsthat willadequatelymeet nutritionalneedsDuringchildhood.
K4	**CO4**	thestudentwilllearntheimpactofgrowthanddevelopmentin Arrivingatthenutritionalneedsofadolescents.
K5	**CO5**	Determinenutrientrequirementsduringoldage.

Course Code	U21FNT41	THERAPEUTICNUTRITION	L	T	P	C
CORE-VI			4	-	-	4

COURSEOUTCOMES

Onsuccessfulcompletionofthecourse,thestudentswillbeabletogainknowledgeabout

K2	CO1	Planandprepareastandardizedhospitaldietfortheneededpatients.
K2	CO2	Understandtheconcept,purpose,andprinciplesofdietthera pyandtherole andtypesofdietitians.
K3	CO3	Delineatevariousdeficiencydisordersconcerningtheir prevalence,causes,symptoms,andpreventivemeasures.
K4	CO4	discussthekindsofcommercialformulasavailablefororal andenteralfeedings.
K5	CO5	comparethefoodexchangelistinthecontrolofdiabetesand complications.

Course Code	U21FNP42	THERAPEUTICNUTRITIONPRACTICAL	L	T	P	C
COREVII			-	-	4	4

COURSEOUTCOMES

Onsuccessfulcompletionofthecourse,thestudentswillbeabletogainknowledgeabo ut

K2	CO1	designtheprinciplesofmealplanning,diettherapy,therapeuticdiets,and nutrition support.
K3	CO2	makeappropriatedietarymodificationsforvariousdiseaseconditions basedonthepathphysiology.
K4	CO3	demonstratethemethodtoplanandprepareadietforvarious diseases.
K5	CO4	evaluatetheconceptoffoodgroupsandexchangesforplanningand preparingabalanceddietforvariousagegroupsandphysiologicalconditions.
K6	CO5	createskilldevelopmentinplanningtherapeuticdietsusingfood exchangelists.

Course Code	U21FNT61	NUTRITIONANDFITNESS	L	T	P	C
CORE-XIII			5	-	-	4

COURSEOUTCOMES

Onsuccessfulcompletionofthecourse,thestudentswillbeabletogainknowledgeabout

K2	CO1	Outlinethe self-responsibilityforpersonalhealth and wellness.
K4	CO2	Analyzetheroleoleofnutritioninsports.
K2	CO3	Discussthevariousparametersusedtofindhealthstatus.
K3	CO4	Evaluate the effect of exercise on various nutrient metabolisms.
K2	CO5	Comparedifferentexercisemethodsandlearntheir application.

Course Code	U21FNT62	FAMILYRESOURCEMANAGEMENT	L	T	P	C
CORE-XIV			5	-	-	4

COURSEOUTCOMES

Onsuccessfulcompletionofthecourse,thestudentswillbeabletogainknowledgeabout

K4	CO1	improvetheirabilityinthemanagementoffamilyResources
K2	CO2	understandandapplythebasicprinciplesofartinInterior decoration.
K2	CO3	understandtheelementaryprinciplesofplanningahouseandits interiorarrangement.
K3	CO4	tousetheprinciplesofdesigninday-to-daylife.
K5	CO5	theimportanceofmanagementinfamilyandpersonalliving.

Course Code	U21FNT63	FUNCTIONALFOODSANDNUTRA	L	T	P	C

CORE-XV	**CEUTICALS**	**5**	**-**	**-**	**4**

COURSEOUTCOMES

Onsuccessfulcompletionofthecourse,thestudentswillbeabletogainknowledgeabout

K2	CO1	Analyzethephotochemicalcompoundsphysiologicalcompoundsandfunctional ofnaturalasbasiswellof as varioussynthetic
K5	CO2	Comparefunctionalfoodandnutraceuticalsinplantsourcestoevaluatethepotentialhealthbenefitsofplant-basedbioactive components
K4	CO3	Assesspro-biotics,prebiotics,andsymbioticsandevaluatethepotentialhealthbenefits.
K4	CO4	Explaintheregulatoryissuesrelatedtonutraceuticalsandfunctional foods.
K5	CO5	EvaluatetheConsumeracceptabilityandmarketingofpotentiallyavailablefunctionalfood Products

Course Code	**U21FNT64**	**NUTRITIONINSPECIALCONDITION**	**L**	**T**	**P**	**C**
CORE-XVI			**5**	**-**	**-**	**4**

Courseoutcomes

Onsuccessfulcompletionofthecourse,thestudentswillbeabletogainknowledgeabout

K2	CO1	preventionofpublichealth/socialhealthproblemsinthecountry.
K5	CO2	workableknowledgetotreatcommonillnessesathome.
K4	CO3	combatvariousNationalnutritionalemergencies
K4	CO4	epidemicdiseases.
K5	CO5	difficultiesinvolvedinfeedingchildrenwithspecialneeds.

Course Code	U21FNE312	BAKERYANDCONFECTIONERY	L	T	P	C
ELECTIVE-I			4	-	-	3

COURSEOUTCOMES

Onsuccessfulcompletionofthecourse,thestudentswillbeabletogainknowledgeabout

K2	CO1	understandthebakeryscienceanditsapplicationonprocessing.
K3	CO2	identifythebasicingredientstopreparebakeryandconfectioneryproducts.
K4	CO3	assessvariousmethodsinthepreparationofmodifiedbakeryproducts.
K4	CO4	choosetheappropriatebakeryequipmentbasedonthespecificneeds.
K6	CO5	checkFaultsandprovideremediesforbakery products.

Course Code	U21FNE421	FOODHYGIENEANDSANITATION	L	T	P	C
ELECTIVEII			3	-	-	3

COURSEOUTCOMES

Onsuccessfulcompletionofthecourse,thestudentswillbeabletogainknowledgeabout

K1	CO1	Classifythecommonkindsofphysical/chemicalcontaminationandsimplemeasurestopreventfoodpoisoning.
K2	CO2	Explainhowhighstandardsofpersonalhygieneforfoodhandlerscanbeachieved.
K1	CO3	Defineintegratespracticesforeconomiccontrolofpests
K6	CO4	Designfoodhygieneandsanitationmeasurestocontrolthespreadofmicroorganisms.
K5	CO5	Criteriatofulfilwatersafetyandenvironmentalrequirements.

Course Code	U21FNE422		L	T	P	C

ELECTIVESII	**COMMUNICATIONANDMEDIASKILLS**	**3**	**-**	**-**	**3**

Courseoutcomes

Onsuccessfulcompletionofthecourse,thestudentswillbeabletogainknowledgeabout

K2	CO1	Understandingofcommunication,modelsofcommunication.
K3	CO2	AcquireskillsinthePreparationofvisualaids.
K2	CO3	Collectfirst-handinformationinvisitingmediacentres.
K3	CO4	Abletoorganizeexhibitionsatthevillagelevel.
K4	CO5	Abletoeffectivelyusemoderncommunicationtechnologies.

Course Code	**U21FNE423**		**L**	**T**	**P**	**C**
ELECTIVESII		**DIETFORDISEASES**	**3**	**-**	**-**	**3**

COURSEOUTCOMES

Onsuccessfulcompletionofthecourse,thestudentswillbeabletogainknowledgeabout

K2	CO1	Planandprepareastandardizedhospitaldietfortheneededpatients.
K2	CO2	Understandtheconcept,purpose,andprinciplesofdiettherapyandtheroleandtypesofdieticians.
K3	CO3	Applyvariousdeficiencydisordersconcerningtheirprevalence,causes,symptoms,andpreventive measures.
K4	CO4	Discussthekindsofcommercialformulasavailablefororalandenteralfeedings.
K4	CO5	Comparethefoodexchangelistinthecontrolofdiabetesandcomplications.

Course Code	**U21FNE531**		**L**	**T**	**P**	**C**
ELECTIVESIII		**FOODSAFETYANDQUALITYCONTROL**	**3**	**-**	**-**	**3**

COURSEOUTCOMES

Onsuccessfulcompletionofthecourse,thestudentswillbeabletogainknowledgeabout

K2	CO1	Discussdifferentfoodsafetyandqualityaspects.
K2	CO2	gainknowledgeonfoodsafetyandfoodlawsandstudy aboutquality
K4	CO3	Identifyobjectives,Importance,functionsofqualitycontrol, stagesofqualitycontrol.
K3	CO4	Applysafetyprinciplesrelatedtothefoodindustry.
K4	CO5	AnalyzebasicprinciplesofHACCP,SQF,andISOand sanitation.

Course Code	**U21FNE643**	**FASHIONDESIGN**	**L**	**T**	**P**	**C**
ELECTIVE-IV			**3**	**-**	**-**	**3**

Courseoutcomes

Onsuccessfulcompletionofthecourse,thestudentswillbeabletogainknowledgeab out

K3	**CO1**	Identifytheroleandfunctionsofclothingandrecognizethefactors affectingselectionandevaluationofclothing.
K2	**CO2**	Explaintheconceptoffashion,itsterminology,sources,andfactors affectingit.
K2	**CO3**	Describetheglobalfashionindustryanditsleadingdesigners.
K4	**CO4**	Classifyandillustratevariouscomponentsofthegarment.
K3	**CO5**	Applytheknowledgeofelementsandprinciplesindesigninterpretation.

B.A.Tamil

COURSE CODE	**U21TAT11**	**CORE – I : rkfhy ,yf;fpak;**	**L**	**T**	**P**	**C**
CORE I			**5**	**-**	**-**	**4**

COURSE OUTCOMES

Upon completion of this course the students will be able to

K1, K2	**CO1**	know the poetic tactics of the modern writers
K1, K2	**CO 2**	understand the notable features of literary geners and flow of writing
K2, K4	**CO 3**	aware of the salient features of texts
K2, K3	**CO 4**	apply and attempt to write creatively
K4,	**CO5**	critically analyze the works of great writers and will be able to create literary pieces on their own

COURSE CODE	**U21TAT12**	**ed;D}y; vOj;jjpfhuk; (Ie;J ,ay;fs;)**	**L**	**T**	**P**	**C**
CORE II			**6**	**-**	**-**	**4**

Course Outcome

At the end of the course, the students will be able to:

K1, K2	CO1	acquire knowledge of linguistic conventions for reading, writing and speaking.
K1, K2	CO2	use targeted grammatical structures appropriately in oral and written production.
K5, K4	CO3	analyse the grammatical structure of sentences in Tamil texts.
K5, K1	CO4	communicate correctly in spoken and written Standard Tamil.
K3	CO5	make inferences and predictions based on comprehension of a text.

COURSE CODE	U21TAA11	jkpo; ,yf;fpa tuyhW	L	T	P	C
ALLIED I rhHG ghlk;			5	-	-	4

COURSE OUTCOMES

Upon completion of this course the students will be able to

K1, K2	**CO1**	know the poetic tactics of the classical works
K1, K2	**CO 2**	understand the difference between classical Tamil literature and modern literature
K2, K4	**CO 3**	aware of the salient features of literature through the ages
K2, K3	**CO 4**	know the trend of literature
K4, K6	**C05**	critically analyze the literature with historical background

COURSE CODE	U21TAT22	ed;D}y; - nrhy; mjpfhuk; - 5 ,ay;fs;	L	T	P	C
CORE IV			5	-	-	4

Course Outcome

At the end of the course, the students will be able to:

K1, K2	**CO1**	acquire knowledge of linguistic conventions for reading, writing and speaking.
K1, K2	**CO2**	use targeted grammatical structures appropriately in oral and written production.
K5, K4	**CO3**	analyse the grammatical structure of sentences in Tamil texts.
K5, K1	**CO4**	communicate correctly in spoken and written Standard Tamil.
K3	**CO5**	make inferences and predictions based on comprehension of a text.

COURSE CODE	U21TAT31	kJiu ika ,yf;fpak;	L	T	P	C
CORE V			5	-	-	4

COURSE OUTCOMES

Upon completion of this course the students will be able to

K1, K2	CO1	know the poetic tactics of the Tamil writers to highlight the significance of Madurai city which not only serves as the capital of Pandya kingdom but also remains as the seat of Tamil sangam since Sangam Age.
K1, K2	CO 2	understand the notable features of literary geners and flow of writing
K2, K4	CO 3	aware of the salient features of texts
K2, K3	CO 4	apply and attempt to appreciate creatively
K4,	C05	critically analyze the works of great writers

COURSE CODE	U21TAE311	ehl;Lg;Gwtpay;	L	T	P	C
ELECTIVE – I tpUg;gg; ghlk; - I			4	-	-	3

COURSE OUTCOMES

Upon completion of this course the students will be able to

K1, K2	CO1	know the emotions of common people.
K1, K2	CO 2	understand the notable features of significant events through folk literature.
K2, K4	CO 3	aware of their lifestyle, beliefs and cultural tradition.
K2, K3	CO 4	apply and attempt to know the value of folk tradition.
K4,	CO5	critically analyze the life of people.

COURSE CODE	U21TAT42	fhg;gpa ,yf;fpak;	L	T	P	C

CORE VII **Kjd;ikg; ghlk; - VII**		**4**	**-**	**-**	**4**

COURSE OUTCOMES

Upon completion of this course the students will be able to

K1, K2	CO1	know the trend analysis of growth of Tamil Epic literature
K1, K2	CO 2	develop critical thinking of literary genres and content handled in Tamil epic tradition
K2, K4	CO 3	will get knowledge about the growth of Tamil Epic literature.
K2, K3	CO 4	analyze and interpret epics written in Tamil.
K4,	CO5	critically analyze the works of great writers

COURSE CODE	**U21TAE421**	**xg;gpay; ,yf;fpak;**	**L**	**T**	**P**	**C**
ELECTIVE - II **tpUg;gg; ghlk; - II**			**3**	**-**	**-**	**3**

COURSE OUTCOMES

Upon completion of this course the students will be able to

K1, K2	CO1	know the historical background of the literary works of Tamil and other languages..
K1, K2	CO 2	understand the difference between classical Tamil literature and modern literature
K2, K4	CO 3	aware of the salient features of literature through the ages: and Develop critical thinking of literary genres of Tamil and other languages..
K2, K3	CO 4	know the trend of literature of Tamil and other languages
K4, K6	CO5	critically analyze the literature Interpret and appreciate the format and purpose of literature at different periods of same language and also in different languages..

COURSE CODE	U21TAT61	rq;f ,yf;fpak; Sanga Ilakkiyam	L	T	P	C
CORE XIII Kjd;ikg; ghlk; - XIII			5	-	-	4

COURSE OUTCOMES

Upon completion of this course the students will be able to

K1, K2	CO1	know the poetic tactics of the ancient writers
K1, K2	CO 2	understand the notable features of literary geners and flow of writing at sangam age.
K2, K4	CO 3	aware of the salient features of classical texts
K2, K3	CO 4	attempt to appreciate the nuances of ancient literatures
K4,	CO5	critically analyze the works of great writers

COURSE CODE	U21TAT62	jkpo; ePjp ,yf;fpak; Tamil-Neethiilakiyam	L	T	P	C
CORE XIV Kjd;ikg; ghlk; - XIV			5	-	-	4

COURSE OUTCOMES

Upon completion of this course the students will be able to

K1, K2	CO1	know the values adhered by people all through the life for moral well-being
K1, K2	CO 2	understand the noble ethics taught through literature.
K2, K4	CO 3	aware of the values and ethics upholded by Tamil socity through Literature
K2, K3	CO 4	attempt to appreciate the suitability of values insisted by ancient scholars
K4	CO5	critically analyze the works of great writers

COURSE CODE	U21TAS61	fy;ntl;bay;	L	T	P	C
SBE-I jpwd;rhH tpUg;gg; ghlk;			2	-	-	3

COURSE OUTCOMES

Upon completion of this course the students will be able to

K1, K2	CO1	know the historical background of the Inscriptions.
K1, K2	CO 2	understand the growth of Inscriptions in temples from time to time.
K2, K4	CO 3	aware of the salient features of temple culture through

1. ProgramSpecificOutcomes:

PSO1	Demonstrate,solve,andcomprehendmajortopicsinallphysicsfields.
PSO2	Studentswillshowmasteryofmathematicsandthemathematicalprincip lesrequired for athoroughgrasp of physics.
PSO3	Design,carryout,record,andanalysetheoutcomesofPhysicsexperime ntsusingcriticalthinkingandscientificknowledge.
PSO4	Provide essential foundations, as well as a thorough understandingofunderlyingprinciplesand contemporaryadvances.
PSO5	Abilityto planandcarryout their owncreativeideas in theform ofprojects,product development, and design.

COURSE CODE	**U21PHT11**	**PROPERTIESOFMATTER ANDSOUND**	**L**	**T**	**P**	**C**
CORE-I			**5**	**-**	**-**	**4**

CourseOutcomes (CO):

CO	**Learningoutcome**	**Remarks**
CO1	Evaluatemodulusofdifferentmaterials	K3
CO2	Acquireknowledgeon propertiesofliquids	K2
CO3	Understandthephysicsofsoundanditsapplications	K2
CO4	LearnaboutdifferentmethodsofproducingUltrasonicwavesandi ts applications	K1
CO5	Applythe theories in buildingacoustics	K3

K1-Remember K2-Understand K3-Apply K4-Analyze K5-Evalua

COURSE CODE	U21PHT21	MECHANICS	L	T	P	C
CORE-III			5	-	-	4

CourseOutcomes (CO):

CO	Learningoutcome	Remarks
CO1	Learnaboutlawsinvolvedinmechanics	K1
CO2	Understandtheforcesimposedonadynamicrigidbody	K2
CO3	Determinegravitationalfieldandpotentialvalue	K3
CO4	Applyconservation lawsin collision experiments.	K3
CO5	Understandthe concepts ofstaticandhydrodynamics	K2

K1-Remember K2-Understand K3-Apply K4-Analyze K5-Evaluate

COURSE CODE	U21PHT22	HEATANDTHERMODYNAMICS	L	T	P	C
CORE-IV			5	-	-	4

CourseOutcomes (CO):

CO	Learningoutcome	Remarks
CO1	Understand the basics of thermodynamics and theirapplications	K2
CO2	Learnthebasicsoflowtemperatureandhowtoconstruct a successful experiment using low temperature.	K2
CO3	Learnexperimental Methods ToDetermineThetransmissio nofheat.	K2
CO4	Understandthekinetictheoryof gas	K2
CO5	Analyzethelawsofthermodynamicsandmaxwell‘sTher modynamical relations	K4

K1-Remember K2-Understand K3-Apply K4-Analyze K5-Evaluate

COURSE CODE	U21PHT31	OPTICSANDSPECTROSCOPY	L	T	P	C
CORE-V			5	-	-	4

CourseOutcomes (CO):

CO	Learningoutcome	Remarks
CO1	Learnaboutvariouslens anditsaberrations	K1
CO2	Acquireknowledgeaboutinterferenceandinterferometers	K2
CO3	Understandaboutthediffractionphenomenonandresolvingpower in optical instruments	K3
CO4	Studyabout polarization	K2
CO5	Applydifferentspectroscopictechniquetoobtaininformationabout the molecule	K2

K1-Remember K2-Understand K3-Apply K4-Analyze K5-Evaluate

COURSE CODE	U21PHT41	ELECTRICITY AND ELECTROMAGNETISM	L	T	P	C
CORE-VI			4	-	-	4

CourseOutcomes(CO):

CO	Learningoutcome	Remarks
CO1	Studyaboutmagneticfieldproducedin electriccircuits	K1
CO2	Learnaboutcapacitoranditstype	K1
CO3	Acquireknowledgeabout electromagneticinduction	K2
CO4	Analysesandsolveselectricalcircuitswithdcand acsource	K4
CO5	GainknowledgeaboutMaxwellEquation	K2

K1-Remember K2-UnderstandK3-ApplyK4-AnalyzeK5-Evaluate

COURSE CODE	U21PHP42	PRACTICAL-II	L	T	P	C
CORE-VII			-	-	4	4

CourseOutcomes(CO):

CO	Learningoutcome	Remarks
CO1	Abletocharacterizediodes	K3
CO2	Determinedispersiveandresolvingpower ofprism	K4
CO3	DeterminewavelengthofSodiumvaporlight	K4
CO4	Analyzeworkingof differentflipflop	K3
CO5	Verifybridges and LCRconnections	K4

K1-RememberK2-Understand K3-Apply K4-Analyze K5-Evaluate

COURSE CODE	U21PHE431	CHOICE-I	L	T	P	C
ELECTIVE-II		MEDICALPHYSICS	3	-	-	3

CourseOutcomes (CO):

CO	Learningoutcome	Remarks
CO1	Understands BasicAnatomicalTerminology	K2
CO2	Appliesmedicalphysicstoknowthedifferentaspectsofthe body	K3
CO3	Analyzetheperformance oftransducer	K4
CO4	Learn about Electro Cardio Graph(ECG)and itsapplication	K3
CO5	StudyaboutEEG andEMGand itsapplication	K3

K1-RememberK2-Understand K3-Apply K4-AnalyzeK5-Evaluate

COURSE CODE	U21PHT51	ATOMICANDNUCLEARPHYSICS	L	T	P	C
CORE-VIII			5	-	-	4

CourseOutcomes (CO):

CO	Learningoutcome	Remarks
CO1	Acquire knowledge on the fundamental principlesgoverningthe structureof theatom	K1
CO2	Gainknowledgeinatomicphysicsto followcoursesattheAdvancedlevel.	K2
CO3	Obtainknowledgeaboutfinestructureofspectrallines	K2
CO4	Understandingonthebasicsofnuclearphysicsthattreatsatomi cnucleiasself-boundmany-bodyquantumsystems	K2
CO5	Learn aboutnuclearreaction andradioactivity	K1

K1-Remember K2-Understand K3-Apply K4-Analyze K5-Evaluate

COURSE CODE	U21PHT52	CLASSICAL AND STATISTICALMECHANICS	L	T	P	C
CORE-IX			5	-	-	4

CourseOutcomes (CO):

CO	Learningoutcome	Remarks
CO1	Knowledgeaboutmechanicsoftheparticles	K1
CO2	DifferentiateLagrangianequationofsystemsforcon servative andnon-conservativesystems	K3
CO3	ApplyHamiltonianfunctionforvarious application	K3
CO4	Understandaboutclassicalandquantumstatistics	K1
CO5	Acquire knowledge to apply the principles ofstatisticalmechanics toselectedproblems.	K2

K1-Remember K2-Understand K3-Apply K4-Analyze K5-Evaluate

COURSE CODE	U21PHT53	BASICS OF DATA COMMUNICATIONAND PROGRAMMINGINC	L	T	P	C
CORE-X			5	-	-	4

CourseOutcomes (CO):

CO	Learningoutcome	Remarks
CO1	Gainsknowledgeaboutnetworkandtransmissionmode	K1
CO2	Understandaboutseriesandparalleltransmission	K2
CO3	Differentiateanalogandigitalnetwork	K4
CO4	Studyabout basicstructureof C Programming	K2
CO5	UnderstandaboutstatementandcommandsusedinCprogramming	K2

K1-Remember K2-Understand K3-Apply K4-Analyze K5-Evaluate

COURSE CODE	U21PHP53	PRACTICAL-III	L	T	P	C
CORE-XII			-	-	5	4

CourseOutcomes (CO):

CO	Learningoutcome	Remarks
CO1	Abletofabricatebridges andmeasureinductance	K3
CO2	CompareEMFvalueusingpotentiometer	K4
CO3	Determinewavelengthsofvisiblelight	K4
CO4	Comparevoltmeterand chargesensitivityusingspotgalvanometer	K3
CO5	DetermineCauchy‘sconstant	K4

K1-RememberK2-Understand K3-Apply K4-Analyze K5-Evaluate

COURSE CODE	U21PHT61	RELATIVITY AND QUANTUMMECHANICS	L	T	P	C
CORE-XIII			5	-	-	4

CourseOutcomes (CO):

CO	Learningoutcome	Remarks
CO1	Gainknowledgeintheconceptsofspecialandtheoryofrelativity	K1
CO2	Evolveideasaboutdualnatureofmatter	K2
CO3	UnderstandaboutSchrodingerequation	K2
CO4	Learnaboutdifferentoperatormechanism	K2
CO5	ApplyofSchrödinger‘s equationtomicrosystem	K3

K1-Remember K2-Understand K3-Apply K4-Analyze K5-Evaluate

COURSE CODE	U21PHT62	SOLIDSTATEPHYSICS	L	T	P	C
CORE-XIV			5	-	-	4

CourseOutcomes(CO):

CO	Learningoutcome	Remarks
CO1	Understandaboutdifferentcrystalstructure	K1
CO2	Analyzestructureofdifferentcrystallinematerial anddefects	K4
CO3	Abletoknowabouttheinteratomicforcesandbondsbetweensolids	K2
CO4	Analyzethevariouskindsofmagneticmaterials	K4
CO5	Understandthedielectricpropertiesofcrystallinestructures.	K2

K1-Remember K2-Understand K3-Apply K4-Analyze K5-Evaluate

COURSE CODE	U21PHT63	MATHEMATICALPHYSICS	L	T	P	C
CORE-XV			5	-	-	4

CourseOutcomes (CO):

CO	Learningoutcome	Remarks
CO1	Able to apply vector and scalar operator in differentapplications	K3
CO2	Understanddifferentordersofdifferentialequation	K2
CO3	AbletoapplyMatrixandfunctionsofmatricesindifferentproblems.	K4
CO4	EnhanceproblemsolvingskillusingLaplacetransform	K3
CO5	SolvedifferentproblemsusingPartialDifferentialequations	K4

K1-Remember K2-Understand K3-Apply K4-Analyze K5-Evaluate

COURSE CODE	U21PHP64	PRACTICAL-IV	L	T	P	C
CORE-XVII			-	-	5	4

CourseOutcomes(CO):

CO	Learningoutcome	Remarks
CO1	DesignHalfand Fullsubtractor	K3
CO2	Studythecharacteristicsofdiodeand transistor	K4
CO3	Analyzearithmeticaloperation usingOP-Amp	K4
CO4	Constructoscillatorandmultivibratoranddetermineitsfrequency.	K3
CO5	VerifyDemorgan‘stheorem	K4

K1-Remember K2-Understand K3-Apply K4-Analyze K5-Evaluate

DEPARTMENTOFCOMPUTERSCIENCE

ProgrammeSpecificOutcomes

Thestudents at thetimeof graduation willbeableto

PSO1: Impart the fundamental principles and methods of Computer Science in a wide range ofapplications

PSO2: Apply domain knowledge and problem solving skills to solve real time problems**PSO3:**Ensurecareeropportunitiesandempowergoodemployabilityskills inITsector**PSO4:** Identifyand utilizethe toolsand techniques in thedesignand development ofSoftware Products

PSO5: Abilityto workand communicateeffectivelyininterdisciplinaryenvironment

CODE	U21CST11	PROGRAMMINGIN C	L	T	P	C
CORE-I			5	-	-	4

COURSEOUTCOMES:

Onthesuccessfulcompletionofthecourse, studentswill beable to

CO1: Applythesyntaxand semanticsofClanguage–K3

CO2: Utilize the concept of functions and arrays in solving real world problems – K3**CO3:**Demonstratestructures,unionandpre-processingtechniquesinC - K1**CO4:**Designrealworldproblems usingpointers andfileconcept -K3

CO5: Developproblem solvingskillsusingClanguage–K2

CODE	U21CSP11	PROGRAMMINGIN CLAB	L	T	P	C
CORE-II			-	-	6	4

COURSEOUTCOMES

Onthesuccessfulcompletion ofthecourse, studentswill beable to

CO1:DevelopandexecuteprogramsusingOperators andcontrolStructures–K2

CO2:Developprogramsin Ctosolveanykindofrealworld problem -K2

CO3:Applythe programmingconcepts of Cin thestandalone applications. -K3

CO4:Haveadepthunderstandingin Cprogramfeatures–K2

CO5: DevelopprogrammingskillsinC language–K2

CODE	U21CSA11	DISCRETEMATHEMATICS	L	T	P	C
ALLIED-I			5	-	-	4

COURSEOUTCOMES:

Aftersuccessfulcompletion ofthecourse, studentshall beableto:

CO1: Understand thecomplexityofcomputational problems–K2

CO2: Think about the design of formal language which would be able to address any real timeproblem– K1

CO3: Improvethe workingflowof computationalmodels– K2.

CO4: Evaluate BooleanfunctionsusingthepropertiesofBoolean algebra –K2

CO5: SimplifyBooleanexpressions usingBooleanalgebra– K2

CourseCode	U21CST21	FUNDAMENTALSOFDATA STRUCTURES	L	T	P	C
COREIII			5	-	-	4

COURSEOUTCOMES:

Onthesuccessfulcompletionofthecourse, studentswill beable to

CO1: DescribethebasicsofOrderedListsandRepresentationofArrays–K1

CO2: Applytheknowledgeof Linked list forsolvingproblemin therealworld.– K3

CO3: Demonstratetheusageof Binarytrees and RepresentationofTrees–K2

CO4: IllustratetheperformanceofGraphsrepresentationandspanningTrees–K4

COURSE CODE	U21CSP22	DATASTRUCTURESUSINGC LAB	L	T	P	C
CORE-IV			-	-	5	4

COURSE OUTCOMES:

Uponsuccessfulcompletionofthecoursethe studentswillbeableto

CO1: Apply the concepts to solve problems using C programming language -

K3CO2:Implement the basicdata structures usingC– K1

CO3: Solve real world problems using C programming language –

K3CO4:Recognizethe importanceof DataStructurefeatures–K4

CO5:Create linkedlist usingstack operations– K5

COURSE CODE	U21CSA22	DIGITALPRINCIPLESANDCOMPUTERORGANIZATION	L	T	P	C
ALLIEDII			5	-	-	4

COURSE OUTCOMES:

Uponsuccessfulcompletionofthecoursethe studentswillbeableto

CO1: Understandthehardwareandsoftwaretypesandcomponents ofthe computer–K2

CO2: Recognizethe problem-solvingfundamental keypoints.–K1

CO3: Sketchout therepresentationof numbers andcodes inthecomputer–K1.

CO4: Knowthe digitalcomputersinternal componentsand theexecutionoftheinstructions– K2

CO5: Understandthehierarchyof memorymanagementand usage –K1

COURSE CODE	U21CST31	OBJECT ORIENTED PROGRAMMINGWITH JAVA	L	T	P	C
CORE-V			5	-	-	4

COURSEOUTCOMES:

Uponsuccessfulcompletionofthe coursethestudentswillbeableto

CO1: KnowthebasicsofOOPandthesyntax of Javalanguage–K1

CO2: Empowertheknowledgeof Input/Output functionswithfilemanipulationsusingI/O–K2

CO3: AnalyzeGUIprogrammingapplicationsusingAWT packages–K4

CO4: Develop Javabased Applications usingGUIanddatabaseConnectivity

CO5: Createknowledge about thefileconceptin Java–K1

COURSE CODE	U21CSE312	CHOICEII	L	T	P	C
ELECTIVE -I		GRAPHICSUSINGC++-LAB	-	-	4	3

COURSE OUTCOMES:

Uponsuccessfulcompletionofthecoursethe studentswillbeableto

CO1: Apply the concepts to solve graphical primitives using C++ programming language – K3CO2:Implement the 2D&3D transformationsusingC++ -K2

CO3: Solve the real world problems using the features of clipping algorithm – K2CO4: Recognize the importance of Composite transformations & its features – K1CO5:Realizetheimportanceof compositetransformationsanditsproperties–K1

COURSE CODE	U21CST41	WEBTECHNOLOGY	L	T	P	C
COREVI			4	-	-	4

COURSEOUTCOMES

Onthesuccessfulcompletionofthecourse, studentswill beable to

CO1: Learntodesignwebpages usingHTML–K1

CO2: Togainknowledgeoncreatinginteractive web pagesusingASP.Net– K2

CO3: To understandhow to useCookies andDOM– K2

CO4: To developserver-side scriptingusingOLEDB– K3

CO5: Togainknowledgeof handlingclient–server programs –K2

COURSE CODE	U21CSP43	WEBTECHNOLOGYLAB	L	T	P	C
COREVII			-	-	4	4

COURSEOUTCOMES:

Onthesuccessfulcompletionofthecourse, studentswill beable to

CO1: ToperformthebasicfunctionsofVB.NET–K2

CO2: Performtests,resolvedefectsandreviseexistingcode–K2

CO3: Develop dynamic web applications, create and consume web services – K3**CO4:** Use appropriate data sources and data bindings in VB.NET / ASP.Net – K3**CO5:**Todevelop&analysewebbased projectsusingwebtechnologytools–K3

COURSE CODE	U21CSA44	FUNDAMENTALSOFCOMPUTER ALGORITHMS	L	T	P	C
ALLIED-IV			4	-	-	4

COURSEOUTCOMES

Oncompletionofthecourse, thestudent willbe ableto

CO1: Understand the concepts of Divide and Conquer technique and have the skills to write efficientprocedureslikesorting, searchingetc.– K3

CO2:Understand the conceptsand workingprocedureforGreedytechniques–K3

CO3:AcquiretheknowledgetosolvebacktrackingandBranch-and-Boundtechniques–K1

CO4:Analyzethealgorithmsbasedon timecomplexity–K4

CO5: Acquire the knowledge to develop optimal procedures for problems like minimum spanningtreeconstruction, single sourceshortest paths–K3

COURSE CODE	U21CSE421	CHOICEI	L	T	P	C
ELECTIVEII		SYSTEMSOFTWARE	3	-	-	3

COURSEOUTCOMES

OntheSuccessfulcompletionofthecourse,students willbeableto

CO1:UnderstandtherelationshipbetweenSystemSoftwareandMachine Architecture-K2

CO2: To know the design and implementation of assemblers, macro processors, loaders,linkersand compilers–K3

CO3:Interpretvarious conceptsof scanningandparsingof aprogram– K2

CO4: Discuss the processing of a HLL program for execution on a computer system – K1

CO5: Familiar with system software components like compiler, loader & linker – K1

COURSE CODE	U21CST51	RELATIONALDATABASEMANAGEMENTSYSTEM	L	T	P	C
CORE-VIII			5	-	-	4

COURSEOUTCOMES

Onsuccessfulcompletionofthecourse,thestudent willbeableto

CO1: Understand thefundamentals ofdatabasesystem– K2

CO2: Designandcreate tablesindatabaseandexecutequeries-K3

CO3: Have knowledge in network and hierarchical data base system –

K2**CO4:** Design a database based on a data models using normalization –

K3.**CO5:**Understandtheimportant features available inPL/SQL–K1

COURSE CODE	U21CST52	OPERATINGSYSTEMCONCEPTS	L	T	P	C
CORE-IX			5	-	-	4

COURSEOUTCOMES:

Onthesuccessfulcompletion ofthecourse, students willbeable to

CO1: Understand the types, design, implementation of operating system and I/Oprogrammingconcepts– K2

CO2: Recognizethemanagement ofmain andvirtual memoryschemes-K1

CO3:Analyzedifferentschedulingalgorithmsand the managementofdevices –K3

CO4: Understandandmanagetheinformationsystem usingOS–K2

CO5: Realizetheimportanceoffilesystems andits properties inOS–K2

COURSE CODE	U21CST53	COMPUTERNETWORKS	L	T	P	C
CORE-X			5	-	-	4

COURSEOUTCOMES:

Onthesuccessfulcompletionofthecourse, studentswill beable to

CO1: Explaintheconceptsofvariousreferencemodels,Internetandprotocols–K1

CO2: Identifydifferenttransmissionmediaandtopologies-K1

CO3: Distinguisherror detection and error correction of data-K2**CO4:**Implement routing algorithms to determine the optimal path –K3**CO5:**Recognise theperformanceissues inLAN&WAN-K2

COURSE CODE	U21CST54	COMPUTERGRAPHICS	L	T	P	C
COREXI			5	-	-	4

COURSEOUTCOMES:

OntheSuccessfulcompletionofthecourse,students willbeableto

CO1: Have abroad knowledgeabouttheoverviewofGraphicsSystem–K2

CO2: Analyseanddesign algorithmsusingattributesingraphics–K4

CO3: RecognisethepropertiesofTwo andThree-dimensionalgeometrictransformations–K1

CO4: Understand theimportanceof Windowingand Clipping –K2

COURSE CODE	U21CSE531	CHOICE-I	L	T	P	C
ELECTIVE -III		MULTIMEDIA&APPLICATIONS	3	-	-	3

COURSEOUTCOMES

Aftercompletingthe course,the studentscanable to

CO1: Definemultimedia topotential clients–K1

CO2: Identifyanddescribethefunction ofthegeneralskill setsin themultimediaindustry– K1

CO3: Identifythe basic components ofamultimediaproject-K1

CO4: Workwith textfilesandgraphics files-K2

CO5: Knowledge abouttheapplicationsofMultimedia–K1

COURSE CODE	U21CSE532	CHOICE-II	L	T	P	C
ELECTIVE -III		CLOUDCOMPUTING	3	-	-	3

COURSEOUTCOMES

OntheSuccessfulcompletionofthecourse,students willbeableto

CO1: Understand the need for cloud computing– K2**CO2:**

Comprehend virtualization concept in cloud –

K2**CO3:**Get an ideaof securitythreats in cloud – K2

CO4: Knowthe availablewebservices incloudcomputing –K1

CO5: Understandanduse thewebservicesavailable inCloudComputing–K1

COURSE CODE	U21CST61	SOFTWAREENGINEERING	L	T	P	C
CORE-XIII			5	-	-	4

COURSE OUTCOMES:

AfterCompletionofthis Course,Studentswill beableto

CO1:Understandthefactors andstrategiesinSoftwareEngineering–K3

CO2: Recognize the cost metrics and feasibility study in Software estimation -

K1CO3:Create softwaredesign usingreal timeapplications– K3

CO4: Analyze the quality based on validation and verification techniques in Software development –

COURSE CODE	U21CST62	MOBILE APPLICATIONDEVELOPMENT	L	T	P	C
	CORE-XIV		5	-	-	4

COURSEOUTCOME:

Onthesuccessfulcompletionofthecourse, studentswill beable to

CO1: Gain basicideaof XMLandusingitto develop anAndroid application– K1

CO2: FamiliarizethemselveswiththeconceptofUIcomponentsandSQLiteDatabase –K1

CO3: ImplementGUIconcepts inAndroidPlatform–K3

CO4: Buildanyapplicationfor Androiddevices–K3

CO5: KnowledgetodesignmobileappdevelopmentonAndroidAPP–K3

COURSE CODE	U21CSP65	MOBILE APPLICATIONDEVELOPMENTLAB	L	T	P	C
	CORE-XVI		-	-	5	4

COURSEOUTCOMES

Oncompletion ofthe course,the studentswill beable to

CO1:Designanddevelopapplicationsformobile devices–K3

CO2:Develop applicationswith various UIcomponents usingJavaand XML– K3

CO3:BuildanapplicationusingSQLiteDatabase–K3

CO4:Knowhowtolaunchdeveloped applications inmobiledevices–K1

CO5: DesignanapplicationusingSQlitedatabase–K2

COURSE CODE	U21CST63	ARTIFICIALINTELLIGENCE	L	T	P	C
	CORE-XV		5	-	-	4

COURSEOUTCOMES:

OntheSuccessfulcompletionofthecourse,students willbeableto

CO1: Learnaboutthe artificialintelligenceproblemanditscharacteristics–K1

CO2: Demonstrate the fundamentals of heuristic search techniques and reasoning for problemsolving– K3

CO3: Understandtheproblem-solvingusingpredicates – K2

CO4: Describetheconceptsofexpertsystemswith casestudiesforvariousapplications–K1

CO5: Interpretdifferent learningmethodsinexpertsystems–K2

COURSE CODE	U21CSE641	CHOICEI	L	T	P	C
ELECTIVEIV		INTERNETOFTHINGS	3	-	-	3

COURSEOUTCOMES:

OnSuccessfulcompletion ofthecourse,students willbeableto

CO1: Explainthecomponentsof IoT –K1

CO2: Make use of IoT Circuits to obtain solutions – K3**CO3:**

Interpret different design challenges faced in IoT–

K2**CO4:**DevelopIoTapplications inPython–K3

CO5: DeignsensorbasedapplicationusingPython–K3

B.SCINFORMATIONTECHNOLOGY

ProgrammeSpecificOutcomes(PSOs)

PSO1	Demonstratelogical andanalyticalthinkingabilitiesinthefieldofIT
PSO2	Engageinlifelonglearningandprofessionaldevelopmentthrough Higher Educationandresearch.
PSO3	Abilitytoidentifythe resources tobuild andmanagethe IT infrastructureinorder tosolverealworld problems
PSO4	Abilityto workand communicateeffectivelyininterdisciplinaryenvironment

COURSE CODE	**U21ITT11**	**PROGRAMMINGIN C**	**L**	**T**	**P**	**C**
CORE-I			**5**	**-**	**-**	**4**

CourseOutcomes:

Onthesuccessful completionofthecourse,

studentswillbeabletoCO1:Applythe syntaxand semantics

ofclanguage

CO2:Applytheconceptsof functionsand arraysin solvingreal

worldproblemsCO3:Demonstrate structures, unionand pre-processingtechniques

CO4:Analyseanddevelopprogramsusingpointersandfileconcept CO5:A

bleto createprograms and applications

COURSE CODE	**U21ITT12**	**PROGRAMMINGIN CLAB**	**L**	**T**	**P**	**C**
CORE-II			**-**	**-**	**6**	**4**

CourseOutcomes

Onthesuccessfulcompletionofthecourse, studentswill beable to

CO1:DevelopandexecuteprogramsusingOperatorsandcontrolStructuresCO2:D

evelop programs inC to solveanykind of real world problem

CO3: Apply the programming concepts of C in the standalone

applications.CO4:Haveadepth understandingin Cprogram features

CO5:Developapplicationsinadifferentscenario

COURSE	**U21ITA11**		**L**	**T**	**P**	**C**

CODE		MATHEMATICALFOUNDATION				
ALLIED–I			5	-	-	4

CourseOutcomes

Onthesuccessfulcompletionofthecourse, studentswill beable to

CO1:Thecoursewillhelpstudentstodevelopconceptualunderstanding CO2:It acquiremultiple strategiesforsolvingproblems.

CO3:Thecoursewillpreparestudentsfor successin futurecourses

CO4: It will help them develop skills for the workplace and as productive citizens.CO5:Learn andapplymultivariant analysis necessary.

COURSE CODE	U21ITT21	FUNDAMENTALSOFDATASTRUCTURES	L	T	P	C
CORE-III			5	-	-	4

CourseOutcome:

On the successful completion of the course, students will be able toCO1:Describethebasics ofOrdered ListsandRepresentationofArrays CO2:Applytheknowledgeof Linkedlistforsolvingprobleminthe realworld.CO3:Demonstrate theusageof Binarytrees andRepresentationofTrees CO4: Illustratetheperformanceof representation ofGraphsandspanningTreesCO5:Cananalyzeandapplyvariousstructuresindifferent applications.

COURSE CODE	U21ITP22	DATASTRUCTUREUSINGC++LAB	L	T	P	C
CORE-IV			-	-	5	4

CourseOutcomes:

Uponsuccessfulcompletion ofthecoursethestudents willbeable to CO1:applythe conceptstosolveproblemsusingC++programminglanguageCO2:implement thebasic data structures usingC++

COURSE CODE	U21ITA22	DIGITAL PRINCIPLES & COMPUTERORGANIZATI	L	T	P	C

ALLIED-II	**ON**	**5**	**-**	**-**	**4**

CourseOutcomes:

Uponsuccessfulcompletionofthecoursethe studentswillbeableto

CO1:Understandsthehardwareandsoftware,typesandcomponentsofthecomputerCO2:Rec ognizes the problem solvingfundamental keypoints.

CO3:Sketchoutthe representationofnumbers and codesinthecomputer.

CO4:Knowsthedigitalcomputersinternalcomponents andtheexecutionoftheinstructionsCO5:Learn andwork onnewoperatingsystem anddifferent platforms

COURSE CODE	**U21ITE312**	**CHOICEII**	**L**	**T**	**P**	**C**
ELECTIVE -I		**GRAPHICSUSINGC++ LAB**	**-**	**-**	**6**	**4**

CourseOutcomes:

Uponsuccessfulcompletionofthecoursethe studentswillbeableto

CO1: apply the concepts to solve problems using C++ programming languageCO2:implement thebasic data structures usingC++

CO3:solverealworldproblemsusingC++ProgramminglanguageCO4:r ecognise theimportanceofData Structurefeatures

CO5:Enableuserinterfaceenvironment.

COURSE CODE	**U21ITT41**	**OBJECT ORIENTEDPROGRAMMI NGINJAVA**	**L**	**T**	**P**	**C**
CORE-VI			**4**	**-**	**-**	**4**

CourseOutcomes:

At the end ofthe coursethestudent willbeable to:

CO1:Describethebasicsof OOPandthesyntaxofJavalanguage

CO2:Discuss Input/Outputfunctionswithfilemanipulationsusing I/O Streams.CO3:AnalyzeGUIprogrammingapplications usingAWTpackages.

CO4:Plan toDevelop Javabased ApplicationsusingGUIand userinterfaceanddatabaseConnectivity

CO5:Canbuildtheirownapplicationusing OOPSconcept.

COURSE CODE	U21ITE421	CHOICE-I	L	T	P	C
ELECTIVEII		SYSTEMSOFTWARE	3	-	-	3

CourseOutcome

OntheSuccessfulcompletionofthe course,studentswill beabletoCO1:Understandfundamentals ofwirelesscommunications.
CO2:Analyzesecurity, energyefficiency,mobility, scalability,andtheiruniquecharacteristicsinwireless networks.
CO3:Demonstratebasicskillsforcellularnetworksdesign.
CO4:Applyknowledge ofTCP/IP extensionsfor**mobile**andwirelessnetworking.CO5:Learn andapplywired andwireless devices.

COURSE CODE	U21ITT51	COMPUTERNETWORKS	L	T	P	C
CORE-VIII			5	-	-	4

CourseOutcomes:

Onthesuccessfulcompletionofthecourse, studentswill beable to
CO1:explaintheconceptsofvariousreferencemodels,InternetandprotocolsCO2:id entifydifferent transmission mediaand topologies
CO3:distinguisherrordetectionanderrorcorrectionofdataCO4:imple mentroutingalgorithmstodeterminetheoptimalpath
CO5:Abletosenddatacommunication throughwiredandwirelessmode.

COURSE CODE	U21ITT52	OPERATINGSYSTEMCONCEPTS	L	T	P	C
CORE-IX			5	-	-	4

CourseOutcomes:

Onthesuccessfulcompletionofthecourse, studentswill beable to
CO1:Understandthetypes,design,implementationofoperatingsystemandI/Oprogra mmingconcepts.
CO2:Recognizethe managementofmainandvirtual memoryschemes.
CO3:Analyzedifferentschedulingalgorithmsand themanagementofdevices.CO4:Understand and managetheinformation system

COURSE CODE	U21ITT53	WEBTECHNOLOGY	L	T	P	C
CORE-X			5	-	-	4

CourseOutcomes:

Onthesuccessful completionofthecourse,
studentswillbeabletoCO1:learn to designwebpages usingHTML.
CO2:togainknowledge oncreatinginteractivewebpagesusingASP.NetCO3:to
understand howtouse Cookies and DOM.
CO4:todevelopserversidescriptingusingOLEDBCO5:
create ownBLOGownwebpage.

COURSE CODE	U21ITT54	COMPUTERGRAPHICS	L	T	P	C
CORE-XI			5	-	-	4

CourseOutcomes:

On the Successful completion of the course, students will be able
toCO1:Haveabroad knowledgeabouttheoverview
ofGraphicsSystemCO2:Analyse and designalgorithmsusing
attributesingraphics
CO3:RecognizethepropertiesofTwo- andthree-
dimensionalgeometrictransformationsCO4:Understand the importanceof Windowingand
Clipping
CO5:Developuserinterface environmentusinggraphicstools.

COURSE CODE	U21ITE531	CHOICE-I	L	T	P	C
ELECTIVE -III		MULTIMEDIAANDITSAPPLICATION	3	-	-	3

Courseoutcomes

1. Aftercompletingthe coursethestudentscan
2. Definemultimediato potentialclients.
3. Identifyanddescribethe functionofthe generalskillsetsinthemultimediaindustry.
4. Identifythe basic components ofamultimediaproject.
5. Learnto send lossyand losslessdata.

6.

COURSE CODE	U21ITS51	OPERATINGSYSTEM(OS)LAB	L	T	P	C
SBE -III			2	-	-	2

CourseOutcomes:

OnSuccessfulCompletionOfTheCourse,

StudentsWillBeAbleToCO1:LearnBasicLinuxCommands.

CO2:UnderstandTheBasicBehaviourOfOperatingSystem

CO3: Demonstrate Different Process Scheduling And Executing

AlgorithmCO4:Do Shell ProgrammingOnLinuxOs

CO5:Ableto developownapplications inalinuxenvironment.

COURSE CODE	U21ITT61	INTERNETOFTHINGS	L	T	P	C
CORE-XIII			5	-	-	4

CourseOutcomes:

CO1: Understand the concepts of Internet of

ThingsCO2:Analyzebasicprotocols

inwirelesssensornetwork

CO3:Design IoTapplicationsindifferentdomainandbeableto

analyzetheirperformanceCO4:Implement basicIoT applications onembedded platform.

CO5:Simulationoftoolsinan IOTenvironment.

COURSE CODE	U21ITT62	DATAMINING	L	T	P	C
CORE-XIV			5	-	-	4

CourseOutcomes

Onsuccessful

completionofthecourse,studentswillbeabletoCO1:explain theconcepts

of dataand trends ofdata mining

CO2:distinguishvariousdataminingtechniquessuchasAssociationrule

mining,ClassificationandClustering

CO3:assesstheapplicationofdatamining.

CO4:applythedataminingtechniquesforvarious

applications.CO5:Learn about text andweb mining.

COURSE CODE	U21ITT63	ARTIFICIALINTELLIGENCE	L	T	P	C
CORE-XVII			-	-	5	4

CourseOutcomes:

OntheSuccessfulcompletionofthecourse,students willbeableto

CO1: Learnabouttheartificialintelligenceproblemanditscharacteristics

CO2:Demonstratethefundamentalsofheuristicsearchtechniques

COURSE CODE	U21ITE641	CHOICE-I	L	T	P	C
ELECTIVE -IV		ETHICALHACKING	3	-	-	3

CourseOutcomes:

CO1: Introduceaboutthebasicconceptsofethicalhacking CO2:

Know about the technical foundation of

hackingCO3:Acquireabout thetechniques used in hacking

CO4:KnowabouttheenumerationandthreatsCO5:

Learn to providesecurityfordata.

COURSE CODE	U21ITE642	CHOICE-II	L	T	P	C
ELECTIVE -IV		INFORMATIONSECURITY	3	-	-	3

CourseOutcomes

Afterthe completionof InformationsecurityThestudentscangaintheCO1:

Knowledgeof cryptographyand network security

CO2: Knowledge of security management and incident

responseCO3: Knowledge of security in software and operating

systemsCO4:Knowledgeof data

securityandsecuresystemdevelopmentCO5:Analyzedifferent

threatsand remove thethreats.

COURSE CODE	U21ITS611	IMAGEPROCESSINGLAB	L	T	P	C
SBE -IV			-	-	2	2

CourseOutcomes

Afterthe completionof Informationsecurity.Thestudentscangainthe

CO1:Knowledgeofimageprocessingandbasicanalyticalmethodstobeusedinimageprocessing.CO2:KnowledgeofImageEnhancement and Restoration technique.

CO3:Knowledgeof ImageCompressionTechnique

CO4:Knowledgeofsegmentationandmorphologicalprocessingtechniques CO5: Knowledgeabout to developnewreal timeapplication.

CourseCode	U21BCE422	PLANTTHERAPEUTICS	L	T	P	C
Elective	II		3	-	-	3

Courseo utcomes Uponcompletionofthiscourse, thestudents willbeableto

CO	CourseOutcomes	KnowledgeLevel
CO1	attainknowledgeonthetherapeuticspropertiesof bioactivecompoundsinplants	K1
CO2	understandthemechanismbehindfreeradical scavengingand theantioxidantpropertiesofplants	K1,K2
CO3	gainknowledgeonplantsecondarymetabolites andtheirfunctions	K2
CO4	learnhowtostandardizeandstabilizeherbal preparations	K3
CO5	acquireknowledge on developmentofplant therapeuticsforcommercialuse	K2

	L	P
GENERAL MICROBIOLOGY	5	-

Courseo utcomes Uponcompletionofthiscourse, thestudents willbeableto

CO	CourseOutcomes	KnowledgeLevel
CO1	explainbasicsofmicroorganismsandm icroscopeand itstypes	K1,K2
CO2	gainknowledgeonvariouscellorganellesofmi cro-organisms anditsstructure	K1,K2, K3
CO3	describethenutrition,photosynthesis, metabolism ofbacteria	K1,K2, K3
CO4	illustrate the factors involved in spoilage,poisoningoffood andfoodbornediseases	K1,K2, K3
CO5	knowthemethods offermentationandapplicationsofmicro	K1,K2, K3

		besinindustry	

CourseCode	U21BCT52	IMMUNOLOGY	L	T	P	C
Core	VIII		5	-	-	4

Courseo utcomes	Uponcompletionofthiscourse, thestudents willbeableto		
	CO	CourseOutcomes	Knowledge Level
	CO1	understand the history and development ofimmunologyandcontributionsofvarious scientist	K1,K2
	CO2	defineantigensandantibodies	K1,K2, K3
	CO3	illustrateantigen-antibodyreaction	K1,K2, K3
	CO4	definehypersensitivityandexplainitstypes.	K1,K2, K3
	CO5	explaintheconceptsofimmunodeficiency	K1,K2,K3

CourseCode	U21BCT54	FUNDAMENTALSOFMOLECULAR BIOLOGY	L	T	P	C
Core	XI		5	-	-	4

Courseo utcomes	Uponcompletionofthiscourse, thestudents willbeableto		
	CO	CourseOutcomes	KnowledgeLevel
	CO1	knowandunderstandthestructureofnucleicacids, geneticcode, wobble hypothesis and mutation and theirtypes	K1,K2
	CO2	describeaboutthecentraldogmaoflife	K1,K2, K3
	CO3	explainthe gene exchangemethods	K1,K2, K3
	CO4	discussaboutoperonand itstypes	K1,K2, K3
	CO5	gainknowledgeontransposonsas mutagenicagent,DNAdamageandrepairmechanisms.	K1,K2, K3

CourseCode	U21BCP53	GENERAL MICROBIOLOGYANDIMMUNOLOGY	L	T	P	C
Core	XII		-	-	5	4

Courseoutcomes Uponcompletionofthiscourse, thestudents willbeableto

CO	CourseOutcomes	KnowledgeLevel
CO1	understandhematologyandbloodgroupingmethods.	K1,K2
CO2	empathize on various immunologicaltechniques	K1,K2, K3
CO3	gain expertiseinasepticteчhnique	K1,K2, K3
CO4	learndifferentstainingtechniques	K1,K2,K3
CO5	acquire knowledge in various platingtechniques	K1,K2, K3