

THE PROGRAM OUTCOME

The undergraduate students passing out from St. Xavier's college will be able

- To achieve academic competency and translate it into actionable steps.
- To construct meaningful and coherent knowledge structure.
- To scientifically and philosophically analyse the real world problems.
- To apply modern technology to solve any given problem.
- To acquire proficiency in Language, Arts, Science, Technology and Management studies.
- To contribute significantly to the developmental needs of India and the world.
- To develop necessary skills for employability.
- To get instilled with ambition, involvement and responsibility.
- To explore their role in creating this world and position themselves in the 21st century.
- To reduce socio-economic inequity.
- To internalise the life and living.
- To become intellectually able, socially responsible, emotionally balanced and morally upright, spiritually well-grown and mentally matured.

The postgraduate students passing out from St. Xavier's college will be able

- To acquire expertise in their own discipline.
- To identify, formulate, perform research literature survey and analyze complex problems.
- To come out with substantial conclusions using principles of all branches of sciences, commerce, economics and management studies.

- To develop specific skills in planning and conducting advanced experiments recording and analyzing the data and draw the relevant conclusions from it.
- To collaborate in order to analyse and find solutions of existing problems of India and the world.
- To establish themselves in hot areas of research and contribute to the developmental needs of India and the world.
- To become knowledge transfer agents of the society.
- To become employable in science, education, technology, R&D, finance and commercial sectors.

The MPhil students passing out from St. Xavier's College will be able

- To proceed towards research studies (PhD and Postdoctoral studies).
- To become knowledge transfer agents of the society.
- To find realistic solutions for existing problems of the Society.
- To find their positions in higher education sectors and R&D firms.

THE PROGRAM SPECIFIC OUTCOMES FOR THE PROGRAMMES OFFERED BY SXC AND COURSE **OUTCOMES OF EACH COURSE FOR ALL THE PROGRAMMES**

Program name: B.Com

Learning Objectives:

The students of B.Com programme will have the knowledge about the business environment and the skills needed to manage the business.

The curriculum is designed according to the need and requirements of the society and relevance to the regional and national developmental needs. Subjects like logistics management, entrepreneurial training and development, human resource management, import and export procedures, computerized accounting package, environmental studies, online trading and demat operations and computer papers are meeting the regional and national developmental needs.

Programme specific outcome .

- ❖ Acquire the knowledge along with the relevant facts and figures related to the discipline of study of the student.
- ❖ Be able to understand the basic concepts, principles and theories related to the subjects and apply the same in his/her day to day life
- ❖ Realize the importance of education in the moral, mental and aesthetic development of human society
- ❖ Understand how society can be influenced by various social issues
- ❖ Gain analytical ability to analyze the various developments in their subjects and its impact on human society
- ❖ Be able to look at issues with the national interested in mind
- ❖ Develop strong moral and ethical values to contribute as a responsible member of society
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- ❖ Develop communication skills which will help the student to be able to express one's ideas clearly and with commitment
- ❖ Appreciate and understand that the pursuit of knowledge is a life along activity and that there is not end to learning
- ❖ Develop social skills by taking part in various co-curricular and extracurricular activities.

Program name: M.Com

Learning Objectives:

The students of M.Com programme will have the theoretical knowledge and practical aspects in the broader area of Human Resources Management and Finance which could be used in the corporate sector.

PG curriculum has been designed to meet the regional and national development by providing degree in specialized subjects like Human Resources Management and Finance. The subjects like Business Environment, Business Ethics and Corporate Social Responsibilities will help to understand the business environment and ethics to be followed in business.

PGDCAB, which is a parallel Add-on programme along with the regular M.Com programme, is very much useful for making the students employable. It provides an opportunity to equip the students with computer basics and the computerized accounting

Programme specific outcome:

- ✓ Have in-depth and detailed functional knowledge of the fundamental theoretical concepts and experimental methods of his/her discipline

- ✓ Identify, formulate, research literature and analyze complex problems reaching substantiated conclusions using the principles of his/her discipline
- ✓ Have specific skills in planning, conducting pilot studies, collecting and analyzing the data and draw the relevant conclusions from it
- ✓ Contribute to the generation of new insights or to the innovation of new applications
- ✓ be confident to do one's research individually
- ✓ be able to write research reports and prepare and present one's dissertation work independently

M.Phil Programme

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

- The basic fundamentals of research.
- The use of computers in the field of research.
- To identify the research problems.
- Use and application of SPSS in solving the research problems.
- The application of various statistical and mathematical tools in the field of research.

Programme Specific Outcome: Ph.D.

- At the end of the research work research scholars will be
- 1. able to analyse the problems critically.
- 2. able to realise the objectivity of the research
- 3. able to identify the research problem
- 4. able to collection and compiling information from different sources.
- 5. able to justifying the results with the help of mathematical and statistical tool.

B. COM.

Course Code	Course	Course Outcome
18 UCG 11	FINANCIAL ACCOUNTING	<ol style="list-style-type: none"> 1. The students will be able to understand the concept and convention of accounting and also the nuances of double entry book keeping. 2. To prepare the final accounts of trading concerns. 3. To realize the concept of depreciation and gain knowledge with regard to various methods of depreciation. 4. To recognize the nature of non trading concern and undertake the concept of income and expenditure account.

		<ol style="list-style-type: none"> 5. To understand the meaning of single entry system and the methods of ascertaining profit under this system.
18 UCG A11	BUSINESS ECONOMICS	<ol style="list-style-type: none"> 1. On the successful completion of the course the student will be able to comprehend the basic concepts of Business Economics. 2. To understand the basic tools of business economic analysis. 3. To know the application of the concepts and economic theories in the business organizations. 4. To acquire skills that will help them to take a rational decisions in issues related to Business Economics. 5. To help the students to understand the sound theoretical framework of the subject of the Business Economics.
18 UNM 11	SALESMANSHIP	<ol style="list-style-type: none"> 1. The students after studying the following units will be able to understand the meaning of salesmanship and its significance in the modern era. 2. To explain the qualities of a successful sales person including the process of selling. 3. To identify the various skills required for selling including the competencies required for managing sales territories. 4. Discuss the method of closing a sales transaction. 5. Apply the knowledge gained in salesmanship in a real life situation and evaluate himself on the level of competency acquired in selling.
18 UCG 21	BUSINESS ACCOUNTING	<ol style="list-style-type: none"> 1. The students familiarize with the branch and departmental accounts 2. The students understand the accounts of insurance claims 3. The students acquire knowledge with regards to Hire purchase and installment accounts 4. The students get a clear idea about the admission and retirement of partnership accounts 5. The students understand about the death and dissolution of partnership accounts
18UCGA 21	MARKETING	<ol style="list-style-type: none"> 1. The students after studying the following units will be able to understand the concept of marketing and its related

		<p>dimensions including the various approaches to the study of marketing.</p> <ol style="list-style-type: none"> 2. Discuss the significance and the various factors affecting marketing mix and the role of segmentation as a strategy for success in marketing. 3. Differentiate the various stages of product lifecycle and the process involved in new product development. 4. Analyze the factors affecting price determination and the methods of pricing. 5. Apply the knowledge gained in the selection of distribution channels for products and services and in understanding the role of intermediaries in distribution.
18 UNM 21	BASIC ACCOUNTANCY	<ol style="list-style-type: none"> 1. To learn the concept and role of accounting in the modern business 2. To conceptually define accounting and bookkeeping 3. To identify the accounting rules required for the business enterprises. 4. To apply the accounting rules in determining financial results. 5. To prepare financial statements.
18 USB 22	SKILLS IN SERVICE MARKETING	<ol style="list-style-type: none"> 1. To identify selling strategies and after sales follow up 2. broader knowledge of key issues of managing complaints 3. manage online customer review 4. illustrate the ways to improve customer service 5. analyse the need for creating customer service and ways to collect information about customer service
18 UCG31	CORPORATE ACCOUNTING	<ol style="list-style-type: none"> 1. Formulate preparation of accounts for issue of shares and debentures 2. Gain knowledge regarding redemption of preference shares and debentures 3. Acquire basic knowledge in preparing company final accounts 4. Justify the most suitable methods of valuing shares and goodwill 5. Learn the techniques to reconstruct the accounts of

		companies internally and externally
18 UCG 32	BUSINESS ORGANISATION AND MANAGEMENT	<ol style="list-style-type: none"> 1. The students understand the nature and objectives of business 2. The students aware of the various forms of business 3. The students acquire knowledge regarding the nature and significance of business management 4. The students get idea about the functions of business management 5. The students have knowledge regarding the functions of management such as staffing, directing and controlling in business
18 UCG33	COMMERCIAL LAW	<ol style="list-style-type: none"> 1. Understand the basics of Contract Act. 2. Ability to know the execution of contact and the special contracts. 3. Knowledge about the Sale of goods Act. 4. Understand the Negotiable Instruments. 5. Working Knowledge about the Negotiable Instruments.
18 UCGA 31	BUSINESS MATHEMATICS	<ol style="list-style-type: none"> 1. It helps the students to understand the interdependent of various sectors and to find out contribution of various sectors. 2. Students will become familiar in calculating different types of interest and its impact on business. 3. Students will acquire the knowledge of calculation of Present value and Annuities. 4. Students will be able to solve problems using log tables. 5. Students acquire the knowledge of calculations using binomial and indices.
18 USB 32	SKILS FOR E-BANKING	<ol style="list-style-type: none"> 1. Understand the concept e banking 2. Acquire basic skill of opening an account through online 3. Gain knowledge to transfer funds through online 4. Identify the various e payment gateways 5. Know the important e security threats and the schemes in e payment system
18 UCG 41	COMPANY LAW	<ol style="list-style-type: none"> 1. The students acquire the Knowledge regarding the procedure for formation of the company

		<ol style="list-style-type: none"> 2. The students understand the source of capital and managing the issue of share capital 3. The students get an idea about the management of company 4. The students know the issues regarding the company meeting and proceedings 5. The students get a clear idea about the winding up modes and procedure of a company
18 UCG 42	SPECIAL ACCOUNTS	<ol style="list-style-type: none"> 1. Understand the procedure to windup existing companies and to 2. Know the preparation of accounts of banking companies 3. Preparation of accounts of life and general insurance companies 4. Formulate preparation of balance sheet in two parts 5. Ability to prepare consolidated balance sheet of companies
18 UCG 43	BUSINESS COMMUNICATION	<ol style="list-style-type: none"> 1. The students understand the concept of business communication 2. The students aware of the various forms of corporate communication 3. The students acquire knowledge regarding the writing skills and report writing 4. The students get idea about the listening skills and factors affecting the listening skills 5. The students have knowledge regarding the modern form of communications
18 UCGA 41	BUSINESS STATISTICS	<ol style="list-style-type: none"> 1. Students will learn practical importance and the usage of central value and its reliability. 2. Students could be able to find out the relationship between various economic parameters. 3. Students will acquire the knowledge of arriving future value by relating the past values. 4. Students could become familiar with the measurement of major economic parameters and its effects. 5. Students will be able to find out the relationship between various attributes and its impact.
18 UCGE 41	HUMAN RESOURCE MANAGEMENT	<ol style="list-style-type: none"> 1. Thorough knowledge on Human resource management 2. Understanding the importance and maintenance of human resource

		<ol style="list-style-type: none"> 3. Ways and means of getting human resource 4. Various ways of training and motivating human resource 5. Evaluating the performance of human resource
18 USB 41	FUNDAMENTALS OF MARKETING	<ol style="list-style-type: none"> 1. The students after studying the following units will be able to: 2. Understand the concept marketing and its related fundamental dimensions. 3. Explain the various classifications of market including its functions. 4. Outline the factors influencing marketing mix and the significance of segmentation. 5. Differentiate the various stages of product lifecycle and the different kinds of pricing. 6. Evaluate the channels of distribution for better selection and the role of salesman in enhancing corporate sales volume.
18 UCG 51	CONTEMPORARY BANKING	<ol style="list-style-type: none"> 1. The students understand the concepts of banking 2. The students aware of the components of banking system in India 3. The students acquire knowledge regarding the instrument used in banks 4. The students get idea about the E-banking and its various dimensions 5. The students have knowledge regarding the customer services of banking
18 UCG52	COST ACCOUNTING	<ol style="list-style-type: none"> 1. Describe how cost accounting is used for decision making and performance evaluation. 2. Explain the basic concept of cost and how costs are presented in financial statements. 3. Demonstrate how materials, labour and overhead costs are added to a product at each stage of the production cycle. 4. Identify cost classifications based on how the cost will be used: whether for preparing external reports, predicting cost behavior, assigning costs to cost objects, or decision making 5. 5. Recognize that job-order and process costing are being used in service, merchandising as well as manufacturing

		sectors.
18 UCG 53	INCOME TAX LAW AND PRACTICE	<ol style="list-style-type: none"> 1. Acquired knowledge about the basic provisions, terms and concepts of income tax. 2. Learnt to compute salary income with eligible deduction. 3. Trained to compute the taxable income from house property with deductions. 4. Specialized to find the actual profit or loss of the business and profession. 5. Apprehended the legal principles and the polices governing taxation of capital gains and income from other sources
18 UCG 54	FINANCIAL SERVICES	<ol style="list-style-type: none"> 1. Awareness of the various scope of financial services 2. Knowledge on financial services available in India 3. Knowledge on Leasing and its advantages 4. Awareness towards investment avenues 5. Knowledge on credit rating and SEBI guidelines
18 UCG55	CUSTOMER RELATIONSHIP MANAGEMENT	<ol style="list-style-type: none"> 1. Realizing the importance of CRM concepts in modern business sectors 2. Understanding the components of customer satisfactions 3. Knowing the service quality will bring new customer and to retain the existing customers of the business 4. Awareness of using modern technology and software to create good and effective relationship with customers 5. Knowing the influence of CRM in rural and various service sectors.
18 UCGE 51	LOGISTICS MANAGEMENT	<ol style="list-style-type: none"> 1. The students after studying the following units will be able to Understand the concept of logistics and its role in supply chain management. 2. Explain the process of demand management and the importance of customer service standard and strategy. 3. Review the role of purchase in logistics management and the various criterias to be followed in vendor selection for organizations. 4. Outline the determinants of location selection for warehouse and the various decisions concerning warehouse. 5. Describe the factors affecting the selection of material

		handling equipments and the role of packing in warehousing.
18 UCG 61	ENTREPRENEURIAL TRAINING AND DEVELOPMENT	<ol style="list-style-type: none"> 1. After undergoing this paper the students will be able to: 2. Understand the concept of entrepreneur, entrepreneurship and women entrepreneurship. 3. Acquire knowledge about the entrepreneurial motivation and competencies of entrepreneurs. 4. Know the process of Entrepreneurship Development Programmes. 5. understand the rural entrepreneurship and project management 6. The institutional support and incentives provided to entrepreneurs.
18 UCG 62	MANAGEMENT ACCOUNTING	<ol style="list-style-type: none"> 1. Students can describe the role of accounting information system and its limitations. 2. Students can explain the concepts and procedures of financial reporting, including income statement, statement of retained earnings, balance sheet, and statement of cash flows. 3. To prepare an income statement required for external reporting and a different one more useful to managers for managerial decision-making. 4. To identify cost classifications based on how the cost will be used: whether for preparing external reports, predicting cost behavior, assigning costs to cost objects, or decision making. 5. Locate and analyze financial data from annual reports of corporations.
18 UCG 63	AUDITING	<ol style="list-style-type: none"> 1. Understand well the fundamental concept of various components of Auditing 2. Realizing the importance of internal checking on various transactions in business 3. Bringing alertness to have a documentary evidence for every transactions of business 4. Empowered the students with different methods of valuing the various assets and liabilities of the company 5. Awareness of various accounting standards on various items

		of accounting
18 UCG 64	GENERAL LEGISLATIONS	<ol style="list-style-type: none"> 1. Knowledge on fiscal and monetary policies of India 2. Knowledge on how the budget is prepared 3. Knowledge one economic reforms and its implications 4. Awareness about the consumer protection laws 5. Understanding information technology acts and computer crimes
18 UCGE 61	INVESTMENT MANAGEMENT	<p>After undergoing this paper the students will be able to:</p> <ol style="list-style-type: none"> 1. Gain knowledge regarding the nature and scope of the investment management. 2. Know the process of new issue market and the parties involved in the new issue 3. Understand the secondary market and the functions of stock exchange. 4. Acquire knowledge about the fundamental and economic environment analysis 5. Exposed to technical and portfolio analysis.

M.COM

Course Code	Course	Course Outcome
18 PCO 11	BUSINESS ENVIRONMENT	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Got awareness on surrounding of the business 2. Knowing well the advanced technological influence on business 3. Understanding the importance of the government interventions on various business activities 4. Get a clear knowledge about the various economics systems and its impacts on business performance 5. Knowing clear picture of the impact of culture and nature on business environment
18 PCO 12	ADVANCED CORPORATE ACCOUNTING	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Prepare insurance company accounts 2. Prepare accounts of Electricity Company 3. Knowledge on inflation accounting

		4. Knowledge on various accounting standards and their applications
18 PCO 13	BUSINESS ETHICS AND CORPORATE SOCIAL RESPONSIBILITY	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Acquire a basic and clear understanding of ethics and the principles of moral decision-making in global business. 2. Analyze the concept corporate governance and its relationship with other concepts 3. Understand the concept of corporate social responsibility 4. Know the important ways in which a nation's business laws and regulations affect business and society. 5. Identify the process of social accounting, auditing and reporting
18 PCO 14	EXECUTIVE EXCELLENCE	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept of self-awareness and self motivation 2. Aware of the interpersonal skills 3. Acquire knowledge regarding the habit management 4. Get idea about the various issues of time management 5. Have knowledge regarding the stress management and stress coping strategies
18 PCOE 15	MODERN MARKETING	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Analyze the various forces for changes in business and marketing and the fitting mechanism 2. Adopted by organizations to overcome such forces. 3. Differentiate the major drivers of the new economy and the concepts data warehousing and data mining. 4. Examine the role of market intelligence system in improving the overall performance of 5. Organizations and the various factors influencing the buying decision of consumers. Outline the characteristics of services and its marketing implications and the recent trends in Product support service. 6. Analyze the various tools of marketing communication mix and the various factors involved in 7. Recruitment, Selection, Training and evaluation of sales force

		in an organisation.
18 PCO 21	RESEARCH METHODOLOGY	At the end of the course the students will be able to <ol style="list-style-type: none"> 1. Understand the basic concept of Research 2. Aware of the identification of problem specification and research design 3. Acquire knowledge regarding the methods of collecting data and tools used to collect the data 4. Get idea about the data processing and analysis Have knowledge regarding the report writing and presentation
18 PCO 22	ORGANISATIONAL BEHAVIOUR	At the end of the course the students will be able to <ol style="list-style-type: none"> 1. Understand the competencies required for leaders involved in managing human force at work. 2. Describe how learning takes place and the various guidelines to enhance organizational commitment. 3. Identify the various factors to be incorporated in a reward system and the aspects influencing the effectiveness of teams. 4. Explain the basic principles of ethical decision making and the various pressures for organizations to change their pattern of functioning. 5. Appreciate the different roles played by managers to blend the goals of organizations and the human element at work.
18 PCO 23	HUMAN RESOURCE MANAGEMENT	At the end of the course the students will be able to <ol style="list-style-type: none"> 1. Demonstrate an understanding of key terms, theories/concepts and practices within the field of HRM. 2. Demonstrate competence in development and problem-solving in the area of HR Management. 3. Provide innovative solutions to problems in the fields of HRM. 4. Be able to identify and appreciate the significance of the ethical issues in HR. 5. Develop an ability to undertake qualitative and quantitative research.
18 PCO 24	E-COMMERCE	At the end of the course the students will be able to <ol style="list-style-type: none"> 1. Understand and learn the different concepts and the usage of electronic commerce. 2. Understand the process of e banking and e advertising

		<ol style="list-style-type: none"> 3. Explore the modes of electronic payment system and discuss the techniques and technologies used to process online payments. 4. Understand current threats faced by business online and how to mitigate these challenges, 5. Develop the overall understanding of mobile commerce
18 PCOE 21	QUANTITATIVE TECHNIQUES	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. understand the need and importance of operations research 2. enhance skills on mathematical decision making 3. have knowledge on transportation problems 4. have thorough knowledge on assignment problems 5. find the feasible time to replace the machinery
18 PCO 31	BUSINESS TAXATION	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Compute the firm's income, income of the partners 2. Acquire practical knowledge to Plan and compute tax payable by the companies 3. Understand the GST and person liable to pay GST 4. Knowledge about GST input tax credit and registration of GST 5. Understand the procedure for the payment of GST and appeals for GST

18 PCO 32	SECURITIES ANALYSIS AND PORTFOLIO MANAGEMENT	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Understand the discipline of portfolio management and its importance. 2. Realize the significance of return and risk in investing in securities. 3. Get adequate knowledge about the two important analysis involved in security analysis namely fundamental analysis and technical analysis. 4. Get sufficient knowledge about the valuation of shares and bonds. 5. Understand the concept of portfolio evaluation and portfolio revision along with their importance in security analysis and portfolio management.
18 PCO 33	STATISTICS FOR RESEARCH	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept of statistics 2. Aware of the testing of hypothesis 3. Acquire knowledge regarding the correlation and regression analysis 4. Get idea about the non-parametric tests 5. Have knowledge regarding the statistical decision theory
18 PCO 34	FINANCIAL MARKETS AND INSTITUTIONS	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Understand the financial system and its role in economic development of a nation 2. Aware of the components of financial market 3. Acquire knowledge regarding the banking and non-banking institutions for providing the financial services 4. Get idea about the various innovative financial instruments and financial services 5. Acquire knowledge regarding the financial service institutions under financial system
18 PCOE 35	ADVANCED COST AND MANAGEMENT ACCOUNTING	<p>At the end of the students will be able to</p> <ol style="list-style-type: none"> 1. Describe how cost accounting is used for decision making and performance evaluation. 2. Explain the basic concept of cost and how costs are presented in financial statements.

		<p>3. Asses how cost-volume-profit is related and uses CVP analysis as a planning and decision making aid.</p> <p>4. Prepare a budget and use budgets for performance evaluation after flexing the budget.</p> <p>5. Summarize process cost accounting and prepare a process cost report.</p>
18 PCO 41	FINANCIAL MANAGEMENT	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Aware of the discipline of financial management with special focus on its nature and goals. 2. Know the concept of investment decisions in general and project appraisal techniques in particular. 3. Understand the topic cost of capital and they will be able to realize its significance in arriving at financial decision. 4. Take financing decision element and they are equipped with the role of optimum capital structure in attaining the goals of financial management. 5. Acquire adequate knowledge about the concept and importance of dividend decision in maximizing the net value of an enterprise.
18 PCO 42	INTERNATIONAL FINANCIAL MANAGEMENT	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Understand the International monetary system 2. Aware of the International investment and capital flows 3. Acquire knowledge regarding the foreign exchange market and forward market instruments 4. Get idea about the foreign exchange management act 5. Have knowledge regarding the International banking debt and risk
18 PCO 43	PROJECT MANAGEMENT AND ENTREPRENEURSHIP	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. understand the concept and role of entrepreneurship in economic development and rural development 2. acquire practical knowledge about project identification 3. understand the formulation of a project 4. gain knowledge about appraisal of project <p>understand the institutional support to entrepreneurs</p>
18 PCO 44	TOTAL QUALITY	At the end of the course the students will be able to

	MANAGEMENT	<ol style="list-style-type: none"> 1. Understand the importance of quality leaders and quality council for bringing quality management. 2. Knowing well about offering quality service to the customer. 3. Realizing the influence of Team work for maintaining quality in service. 4. Get awareness on problem solving methods in business 5. Understand the importance of benchmarking and quality management system
18 PCO 45	Project	<p>At the end of the course students will be able to understand</p> <ol style="list-style-type: none"> 1.the importance of research in the development of society. 2.the importance of analysing the problems in different ways. 3.the techniques of applying various tools to find answers to the problems. 4.the research design 5.the research methodology and the use of research in different fields.

M.PHIL

Course Code	Course	Course Outcome
	RESEARCH METHODS AND COMPUTER AIDED DATA ANALYSIS	<p>After undergoing this paper the students will be able to:</p> <ol style="list-style-type: none"> 1. understand the research methods and the process of identifying the research problem 2. acquire knowledge about SPSS package for statistical analysis 3. gain practical experience in data processing and analysis 4. analyse and interpret results using SPSS package 5. gain knowledge about drafting of thesis
	ADVANCED FUNCTIONAL MANAGEMENT	<p>After undergoing this paper the students will be able to:</p> <ol style="list-style-type: none"> 1. acquire knowledge about entrepreneurial management 2. enlarge their understanding about marketing management 3. gain more information about financial management and practical experience in data processing and analysis 4. understand the importance of human resource management and the impact of globalization on HRD 5. understand the need and the role of ICT Management

	ECONOMIC REFORMS IN INDIA	<p>After undergoing this paper the students will be able to:</p> <ol style="list-style-type: none"> 1. gain knowledge about fiscal and monetary policies of the central government 2. understand the rationale of Internal and External reforms, impact of Liberalization, Privatizations and Globalizations 3. gain more information about banking sector reforms and financial inclusion 4. understand the working of Insurance Development and Regulatory Authority (IRDA) and the private players in Indian Insurance market. 5. acquire knowledge about capital market reforms and the SEBI's guidelines for capital market
	Dissertation & Viva Voce Examination	<p>At the end of the course students will be able to understand</p> <ol style="list-style-type: none"> 1. the importance of research and selection of research problems . 2. the importance of analysing the problems in different ways. 3. the techniques of applying various tools to find answers to the problems. 4. the research design 5. the research methodology and the use of research in different fields.

Ph. D

Course Code	Course	Course Outcome
18PHDC01	Mini project	<p>At the end of the course the students will be able to understand</p> <ol style="list-style-type: none"> 1. the importance of research in the development of society. 2. the importance of analysing the problems in different ways. 3. the techniques of applying various tools to find answers to the problems. 4. the research design 5. the research methodology and the use of research in different fields
18PHDC02	Buying behaviour	<p>At the end of the course students will be able to understand</p> <ol style="list-style-type: none"> 1. the consumer behaviour

		<p>2.to identify the consumer buying behaviour</p> <p>3.and familiarize with the consumer decision making process</p> <p>4.the consumer behaviour in Indian context.</p>
18PHDC03	Economics of labour and labour migrations	<p>At the end of the course students will be able to understand</p> <p>1.Understand the economics of labour</p> <p>2.Familiarise with work environment and the labour welfare</p> <p>3.Realise the causes of labour migration and its impact</p> <p>4.Understand the international labour standards on labour migration</p>
18PHDC04	Strategic brand management	<p>At the end of the course students will be able to understand</p> <p>1.Understand the concept of brand management</p> <p>2.Familiarise with development of brand strategy</p> <p>3.Able to understand the process of measurement of brand performance</p> <p>4.understand the need for sustaining the brand equity</p>
18PHDC05	Employee relationship management	<p>At the end of the course students will be able to understand</p> <p>Familiarising the basic knowledge of ERM</p> <p>2.Aware of various strategies in ERM</p> <p>3.Realise the importance of change management</p> <p>4.Familiarising with life coping skills</p> <p>5.Understand the various contemporary issues in employees relationship</p>
18PHDC06	Agricultural finance	<p>At the end of the course students will be able to understand</p> <p>1.Acquire knowledge about Agriculture Finance</p> <p>2.understand financing the rural development</p> <p>3.Familiarise with the primary agriculture cooperative societies</p> <p>4.Knowledge about Micro Credit and various scheme to support agriculture</p>
18PHDC07	Electronic commerce and internet marketing.	<p>At the end of the course students will be able to understand</p> <p>1.Acquire knowledge about E-Business and its fundamentals</p> <p>2.Knowledge about website design and construction</p> <p>3.Familiarise with practical side of the E-Payment</p> <p>4.Obtain the need for E-Security and Cyber Laws</p> <p>5.Gaining knowledge about E-business Application</p>
18PHDC08	Services	At the end of the course students will be able to understand

	marketing	<ol style="list-style-type: none"> 1.The research scholars understand the management of service marketing 2. The research scholars get an idea about the service quality 3. The research scholars know the marketing strategies regarding service marketing 4. The research scholars get a clear idea about the hospital marketing
18PHDC09	Retail business management	<p>At the end of the course students will be able to understand</p> <ol style="list-style-type: none"> 1.Understand concept of retail marketing and promotion 2.Gain knowledge about retail location strategy 3.Familiarize with segmenting, targeting and positioning <p>Understanding the emerging trends in retailing</p>
18PHDC10	Modern banking	<p>At the end of the course students will be able to understand</p> <ol style="list-style-type: none"> 1.The research scholars acquire the knowledge regarding the relationship between banker and customer and procedure for opening bank accounts 2. The research scholars understand the duties and responsibilities of banker regarding payment and collection of cheque 3. The research scholars get an idea about the principle of lending and credit facilities and credit management 4. The research scholars know the electronic banking system and new technology 5. The research scholars get a clear idea about the electronic payment system.
18PHDC11	Women entrepreneurship	<p>At the end of the course students will be able to understand</p> <ol style="list-style-type: none"> 1.Understand the need for empowering the women for the entrepreneurial development 2.Acquire knowledge about rural women entrepreneurship and the need to develop the same 3.Realize the problems and challenges of women entrepreneurs
18PHDC12	Organisational behaviour in modern era	<p>At the end of the course students will be able to understand</p> <ol style="list-style-type: none"> 1.Have fundamental knowledge on Organizational Behavior 2.Familiarising the ethical issues in Organizational Behavior 3.Aware of various Uniqueness of Organizational Behavior 4.Realise the importance of Group Behavior

		5. Knowing the positions of women employee in organisations
18PHDC13	Entrepreneurship development	At the end of the course students will be able to understand 1.Demonstrate the fundamentals of entrepreneurship 2.Understand the growth and development of women entrepreneurship 3.Have the ability to discern distinct entrepreneurial motivation and competencies 4.understand the systematic process to select and screen a business idea 5.Design strategies for successful implementation of ideas
18PHDC14	Consumer behaviour	At the end of the course students will be able to understand 1.Understand the concept of consumer behaviour 2.Familiarize with the role of perception and attitude formation in the consumer behaviour 3.Aware of the role of group dynamics and consumer reference groups 4.Understand the personal influence and opinion leadership in consumer behaviour 5.Realize the need for consumerism and the challenges faced by the consumers.
18PHDC15	Marketing research and consumer behaviour	At the end of the course students will be able to understand 1.Develop and understanding about the many aspects of consumer behaviour and its applications in marketing 2.Understand the conceptual foundations of consumer buying behaviour 3.Understand the questionnaire design and research design used in marketing research 4.know methodology of conducting researches in marketing domain 5.understand theories and research on how consumers make decisions, process information, develop preferences and make choices.
18PHDC16	Institutional support to entrepreneurs.	At the end of the course students will be able to understand 1.Demonstrate the entrepreneurship developmentprogrammes 2. understand the need for institutional support to entrepreneur

		3. have the ability to discern distinct institutional support to small entrepreneurs 4. understand the institutions supporting women entrepreneurship 5. know the taxation benefits to small scale industry
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PGDCAB
POST GRADUATE DIPLOMA IN COMPUTER APPLICATION IN BUSINESS

Course Code	Course	Course Outcome
18 DCB 11	COMPUTER FUNDAMENTALS	At the end of the course the students will be able to 1. Distinguish the different types of computers and the parts of the computer system. 2. Understand the operating system, its function and its types 3. Understand the word interface and different formatting options in MSWord 4. Create tables and work with graphics, smart art and word art 5. Understand the Excel interface and work with worksheets, charts, functions and formulas 6. Create Power Point presentations 7. Create simple database, forms and reports
18 DCB 21	MS EXCEL	At the end of the course the students will be able to 1. Understand the Excel Interface 2. work with worksheets, data and different types of charts 3. Learn about formulas and various categories of functions 4. Learn about what if analysis tools 5. Learn about pivot tables and pivot chart.

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Course Code	Course	Course Outcome
18 UCO 11	FINANCIAL ACCOUNTING	At the end of the course the students will be able to 01. Understand the concept and convention of accounting and also the nuances of double entry book keeping. 02. Prepare the final accounts of trading concerns. 03. Realize the concept of depreciation and gain knowledge with

		<p>regard to various methods of depreciation.</p> <p>04. Recognize the nature of non trading concern and undertake the concept of income and expenditure account.</p> <p>05. Understand the meaning of single entry system and the methods of ascertaining profit under this system.</p>
18 UCOA 11	COMPUTER FUNDAMENTALS	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Be able to distinguish the different types of computers and the parts of the computer system. 2. Understand the operating system, its function and its types 3. Understand the basics of network, internet and the World Wide Web 4. Acquire basic knowledge about database and programming languages 5. Understand the features of Windows 7
18 UNM 11	SALESMANSHIP	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 01. Understand the meaning of salesmanship and its significance in the modern era. 02. Explain the qualities of a successful sales person including the process of selling. 03. Identify the various skills required for selling including the competencies required for managing sales territories. 04. Discuss the method of closing a sales transaction. 05. Apply the knowledge gained in salesmanship in a real life situation and evaluate himself on the level of competency acquired in selling.
18 UCO 21	BUSINESS ACCOUNTING	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1) Familiarize the branch and departmental accounts 2) Understand the accounts of insurance claims 3) Acquire knowledge with regards to Hire purchase and installment accounts 4) Get a clear idea about the admission and retirement of partnership accounts 5) Understand the accounts of deceased partner and dissolution of partnership accounts

18 UCOA 21	Web Designing	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept of Web 2. Gain working knowledge about HTML and CSS 3. Gain basic knowledge about CSS 4. Design web pages using HTML and CSS
18UNM21	TOURISM MARKETING	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1) Plan, lead, organize and control resources for effective and efficient tourist operations. 2) Create, apply, and evaluate marketing practices for tourism destinations. 3) Identify and assess relationships and networks relative to building tourism capacity. 4) Demonstrate commitment to ethical practices of tourism. 5) Practice empathy and respect for diversity and multicultural perspectives.
18 USB 22	SKILLS IN SERVICE MARKETING	<ol style="list-style-type: none"> 1. identify selling strategies and after sales follow up 2. broader knowledge of key issues of managing complaints 3. manage online customer review 4. illustrate the ways to improve customer service 5. analyze the need for creating customer service and ways to collect information about customer service
18 UCO31	CORPORATE ACCOUNTING	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Formulate preparation of accounts for issue of shares and debentures 2. Gain knowledge regarding redemption of preference shares and debentures 3. Acquire basic knowledge in preparing company final accounts 4. Justify the most suitable methods of valuing shares and goodwill 5. Learn the techniques to reconstruct the accounts of companies internally.
18 UCO 32	BUSINESS ORGANISATION AND MANAGEMENT	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 01. understand the nature and objectives of business 02. aware of the various forms of business 03. acquire knowledge regarding the nature and significance of business management

		<p>04. get idea about the functions of business management</p> <p>05. have knowledge regarding the functions of management such as staffing, directing and controlling in business</p>
18 UCO 33	BUSINESS LAW	<p>1. At the end of the course the students will be able to</p> <p>2. Understand the basics of Contract Act.</p> <p>3. Know the execution of contract and the special contracts.</p> <p>4. Get the knowledge about the Sale of goods Act.</p> <p>5. Understand the Negotiable Instruments.</p> <p>6. Get Working Knowledge about the Negotiable Instruments.</p>
18 UCOA 31	C PROGRAMMING	<p>At the end of the course the students will be able to</p> <p>1. Get an overview of C Language</p> <p>2. Understand the different types of operators and use those operators in arithmetic expressions</p> <p>3. Understand and apply decision making and looping statements in C</p> <p>4. Understand arrays and strings in C</p> <p>5. Be able to create user defined functions and structures</p>
18 USB 32	Skill for E-Banking	<p>At the end of the course the students will be able to</p> <p>01. Understand the concept e banking</p> <p>02. Acquire basic skill of opening an account through online</p> <p>03. Gain knowledge to transfer funds through online</p> <p>04. Identify the various e payment gateways</p> <p>05. Know the important e security threats and the schemes in e payment system</p>
18 UCO 41	COMPANY LAW	<p>At the end of the course the students are able to</p> <p>01. acquire the Knowledge regarding the procedure for formation of the company</p> <p>02. understand the source of capital and managing the issue of share capital</p> <p>03. get an idea about the management of company</p> <p>04. know the issues regarding the company meeting and proceedings</p> <p>05. get a clear idea about the winding up modes and procedure of a company</p>
18 UCO 42	ADVANCED CORPORATE ACCOUNTING	<p>At the end of the course the students are able to</p> <p>1. understand the procedure of winding up existing companies and to</p>

		<ol style="list-style-type: none"> 2. know the preparation of accounts of banking companies 3. prepare accounts of life and general insurance companies 4. formulate preparation of balance sheet in two parts 5. prepare consolidated balance sheet of companies
18 UCO 43	PROGRAMMING WITH JAVA	<p>At the end of the course the students are able to</p> <ol style="list-style-type: none"> 1. Understand the fundamentals of object oriented programming and an overview of JAVA 2. Understand the different types of operators and control structures in JAVA 3. Have a basic knowledge about classes, objects and inheritance 4. Understand the basics of packages, interfaces and exception handling 5. to create simple java programs using OOP concepts.
18 UCOA 41	BUSINESS STATISTICS	<p>At the end of the course the students are able to</p> <ol style="list-style-type: none"> 1. Learn practical importance and the usage of central value and its reliability. 2. Find out the relationship between various economic parameters. 3. Acquire the knowledge of arriving future value by relating the past values. 4. become familiar with the measurement of major economic parameters and its effects. 5. Find out the relationship between various attributes and its impact.
18 UCOE 41	MULTIMEDIA	<p>At the end of the semester the students are able to</p> <ol style="list-style-type: none"> 1. Utilize several flash tools and tactics learned throughout the course to produce an interactive flash based website 2. Demonstrate the ability to effectively utilize the timeline and motion tween effects to produce animation 3. Load controls and remove movie clips and masks in movie content also to publish flash movie in numerous formats and contexts in a professional and web friendly 4. Understand the 3DS Max user interface and workflow

		5. Able to create content in 3DS max and animate it
18 USB 41	FUNDAMENTALS OF MARKETING	<p>At the end of the course the students are able to</p> <ol style="list-style-type: none"> 01. Understand the concept marketing and its related fundamental dimensions. 02. Explain the various classifications of market including its functions. 03. Outline the factors influencing marketing mix and the significance of segmentation. 04. Differentiate the various stages of product lifecycle and the different kinds of pricing. 05. Evaluate the channels of distribution for better selection and the role of salesman in enhancing corporate sales volume.
18 UCO 51	CONTEMPORARY BANKING	<p>At the end of the course the students are able to</p> <ol style="list-style-type: none"> 01. Understand the concepts of banking 02. aware of the components of banking system in India 03. acquire knowledge regarding the instrument used in banks 04. get idea about the E-banking and its various dimensions 05. have knowledge regarding the customer services of banking
18 UCO 52	COST ACCOUNTING	<p>At the end of the course the students are able to</p> <ol style="list-style-type: none"> 1. Describe how cost accounting is used for decision making and performance evaluation. 2. Explain the basic concept of cost and how costs are presented in financial statements. 3. Demonstrate how materials, labour and overhead costs are added to a product at each stage of the Production cycle. 4. Identify cost classifications based on how the cost will be used: whether for preparing external reports, predicting Cost behavior, assigning costs to cost objects, or decision making. 5. Recognize that job-order and process costing are being used in service, merchandising as well as manufacturing sectors.
18 UCO 53	INCOME TAX LAW AND PRACTICE	<ol style="list-style-type: none"> 1. At the end of the course the students are able to 2. Acquire knowledge about the basic provisions, terms and concepts of income tax. 3. Learn to compute salary income with eligible deduction.

		<ol style="list-style-type: none"> 4. Train to compute the taxable income from house property with deductions. 5. Specialize to find the actual profit or loss of the business and profession. 6. Apprehended the legal principles and the polices governing taxation of capital gains and income from other sources
18 UCO 54	FINANCIAL SERVICES	<p>At the end of the course the students are able to</p> <ol style="list-style-type: none"> 01. Get Awareness of the various scope of financial services 02. Get Knowledge on financial services available in India 03. Get Knowledge on Leasing and its advantages 04. Get Awareness towards investment avenues 05. Get Knowledge on credit rating and SEBI guidelines
18 UCO 55	PHP and MySQL	<ol style="list-style-type: none"> 1. At the end of the course the students are able to 2. Understand client side and server side programming concepts 3. Gain a working knowledge of PHP 4. Understand database concepts by learning MySQL 5. Learn simple server side programming using PHP and MySQL 6. Develop interactive web sites
18 UCOE 51	VB.NET	<ol style="list-style-type: none"> 1. At the end of the semester the students are able to 2. Understand .NET framework 3. Know about Visual Studio Interface 4. Develop simple windows applications 5. Develop simple web applications 6. Develop applications with database access
18 UCO 61	ENTREPRENEURIAL TRAINING AND DEVELOPMENT	<p>At the end of the course the students are able to</p> <ol style="list-style-type: none"> 1. Understand the concept of entrepreneur, entrepreneurship and women entrepreneurship. 2. Acquire knowledge about the entrepreneurial motivation and competencies of entrepreneurs. 3. Know the process of Entrepreneurship Development Programmes. 4. understand the rural entrepreneurship and project management know the institutional support and incentives provided to entrepreneurs

18 UCO 62	MANAGEMENT ACCOUNTING	<p>At the end of the course the students are able to</p> <ol style="list-style-type: none"> 1. Describe the role of accounting information system and its limitations. 2. Explain the concepts and procedures of financial reporting, including income statement, statement of retained earnings, balance sheet, and statement of cash flows. 3. Prepare an income statement required for external reporting and a different one more useful to managers for managerial decision-making. 4. Identify cost classifications based on how the cost will be used: whether for preparing external reports, predicting cost behavior, assigning costs to cost objects, or decision making. 5. Locate and analyze financial data from annual reports of corporations.
18 UCO 63	AUDITING	<p>At the end of the course the students are able to</p> <ol style="list-style-type: none"> 01. Understand well the fundamental concept of various components of Auditing 02. Realize the importance of internal checking on various transactions in business 03. Bring alertness to have a documentary evidence for every transactions of business 04. Empower the students with different methods of valuing the various assets and liabilities of the company 05. Create Awareness of various accounting standards on various items of accounting
18 UCO 64	ORACLE	<p>At the end of the course the students are able to</p> <ol style="list-style-type: none"> 1. Understand the basic concepts of Database and Oracle. 2. Define and Manipulate tables in Oracle 3. Perform SET operations, Join operations and to create Sub queries, Views, Synonyms and Sequences in Oracle 4. Understand the basics of PL/SQL 5. To work with Cursors and Exception handling in PL/SQL

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Course	Course	Course Outcome
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Code		
15 UCG 11	FINANCIAL ACCOUNTING	<ol style="list-style-type: none"> 1. The students will be able to understand the concept and convention of accounting and also the nuances of double entry book keeping. 2. To prepare the final accounts of trading concerns. 3. To realize the concept of depreciation and gain knowledge with regard to various methods of depreciation. 4. To recognize the nature of non trading concern and undertake the concept of income and expenditure account. 5. To understand the meaning of single entry system and the methods of ascertaining profit under this system.
15 UCG A11	BUSINESS ECONOMICS	<ol style="list-style-type: none"> 1. On the successful completion of the course the student will be able to comprehend the basic concepts of Business Economics. 2. To understand the basic tools of business economic analysis. 3. To know the application of the concepts and economic theories in the business organizations. 4. To acquire skills that will help them to take a rational decisions in issues related to Business Economics. 5. To help the students to understand the sound theoretical framework of the subject of the Business Economics.
15 UNM 11	SALESMANSHIP	<ol style="list-style-type: none"> 1. The students after studying the following units will be able to understand the meaning of salesmanship and its significance in the modern era. 2. To explain the qualities of a successful sales person including the process of selling. 3. To identify the various skills required for selling including the competencies required for managing sales territories. 4. Discuss the method of closing a sales transaction. 5. Apply the knowledge gained in salesmanship in a real life situation and evaluate himself on the level of competency acquired in selling.
15 UCG 21	MARKETING	<ol style="list-style-type: none"> 1. The students after studying the following units will be able

		<p>to understand the concept of marketing and its related dimensions including the various approaches to the study of marketing.</p> <ol style="list-style-type: none"> 2. Discuss the significance and the various factors affecting marketing mix and the role of segmentation as a strategy for success in marketing. 3. Differentiate the various stages of product lifecycle and the process involved in new product development. 4. Analyze the factors affecting price determination and the methods of pricing. 5. Apply the knowledge gained in the selection of distribution channels for products and services and in understanding the role of intermediaries in distribution.
15 UNM 21	BASIC ACCOUNTANCY	<ol style="list-style-type: none"> 1. To learn the concept and role of accounting in the modern business 2. To conceptually define accounting and bookkeeping 3. To identify the accounting rules required for the business enterprises. 4. To apply the accounting rules in determining financial results. 5. To prepare financial statements.
15 UCG31	BUSINESS ACCOUNTING	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1) Familiarize the branch and departmental accounts 2) Understand the accounts of insurance claims 3) Acquire knowledge with regards to Hire purchase and installment accounts 4) Get a clear idea about the admission and retirement of partnership accounts 5) Understand the accounts of deceased partner and dissolution of partnership accounts
15 UCG 33	COMMERCIAL LAW	<ol style="list-style-type: none"> 1. Understand the basics of Contract Act. 2. Ability to know the execution of contact and the special contracts. 3. Knowledge about the Sale of goods Act. 4. Understand the Negotiable Instruments.

		5. Working Knowledge about the Negotiable Instruments.
15 UCGA 31	BUSINESS MATHEMATICS	<ol style="list-style-type: none"> 1. It helps the students to understand the interdependent of various sectors and to find out contribution of various sectors. 2. Students will become familiar in calculating different types of interest and its impact on business. 3. Students will acquire the knowledge of calculation of Present value and Annuities. 4. Students will be able to solve problems using log tables. 5. Students acquire the knowledge of calculations using binomial and indices.
15 UCG 41	COMPANY LAW	<ol style="list-style-type: none"> 1. The students acquire the Knowledge regarding the procedure for formation of the company 2. The students understand the source of capital and managing the issue of share capital 3. The students get an idea about the management of company 4. The students know the issues regarding the company meeting and proceedings 5. The students get a clear idea about the winding up modes and procedure of a company
15 UCG42	CORPORATE ACCOUNTING	<ol style="list-style-type: none"> 1. Formulate preparation of accounts for issue of shares and debentures 2. Gain knowledge regarding redemption of preference shares and debentures 3. Acquire basic knowledge in preparing company final accounts 4. Justify the most suitable methods of valuing shares and goodwill 5. Learn the techniques to reconstruct the accounts of companies internally and externally
15 UCG 43	BUSINESS ORGANISATION AND MANAGEMENT	<ol style="list-style-type: none"> 1. The students understand the nature and objectives of business 2. The students aware of the various forms of business 3. The students acquire knowledge regarding the nature and

		<p>significance of business management</p> <ol style="list-style-type: none"> 4. The students get idea about the functions of business management 5. The students have knowledge regarding the functions of management such as staffing, directing and controlling in business
15 UCGA 41	BUSINESS STATISTICS	<ol style="list-style-type: none"> 1. Students will learn practical importance and the usage of central value and its reliability. 2. Students could be able to find out the relationship between various economic parameters. 3. Students will acquire the knowledge of arriving future value by relating the past values. 4. Students could become familiar with the measurement of major economic parameters and its effects. 6. Students will be able to find out the relationship between various attributes and its impact.
15 UCGE 41	PRINCIPLES AND PRACTICE OF INSURANCE	<p>At the end of the course the students will be able to understand</p> <ol style="list-style-type: none"> 1.the concepts of different types of insurance 2.concept and feature of life insurance 3.marine insurance and marine loss 4.the fire insurance ,principles and features 5.the national agricultural insurance scheme,motor vehicle insurance,health insurance.
15 USB 41	ONLINE TRADING AND DEMAT OPERATIONS	<p>At the end of the course the students will be able to understand the</p> <ol style="list-style-type: none"> 1.on line trading in India 2.mechanism of on-line trading. 3.on line share trading and commodity trading 4.opening of Dematerializations accounts 5.mechanism of Demat operations.
15 UCG 51	CONTEMPORARY BANKING	<ol style="list-style-type: none"> 1. The students understand the concepts of banking 2. The students aware of the components of banking system in India 3. The students acquire knowledge regarding the instrument

		<p>used in banks</p> <ol style="list-style-type: none"> 4. The students get idea about the E-banking and its various dimensions 5. The students have knowledge regarding the customer services of banking
15 UCG52	COST ACCOUNTING	<ol style="list-style-type: none"> 1. Describe how cost accounting is used for decision making and performance evaluation. 2. Explain the basic concept of cost and how costs are presented in financial statements. 3. Demonstrate how materials, labour and overhead costs are added to a product at each stage of the production cycle. 4. Identify cost classifications based on how the cost will be used: whether for preparing external reports, predicting cost behavior, assigning costs to cost objects, or decision making 5. 5. Recognize that job-order and process costing are being used in service, merchandising as well as manufacturing sectors.
15 UCG 53	INCOME TAX LAW AND PRACTICE	<ol style="list-style-type: none"> 1. Acquired knowledge about the basic provisions, terms and concepts of income tax. 2. Learnt to compute salary income with eligible deduction. 3. Trained to compute the taxable income from house property with deductions. 4. Specialized to find the actual profit or loss of the business and profession. 5. Apprehended the legal principles and the polices governing taxation of capital gains and income from other sources
15 UCG 54	HUMAN RESOURCE MANAGEMENT	<ol style="list-style-type: none"> 1. Thorough knowledge on Human resource management 2. Understanding the importance and maintenance of human resource 3. Ways and means of getting human resource 4. Various ways of training and motivating human resource 5. Evaluating the performance of human resource
15 UCG55	CUSTOMER	<ol style="list-style-type: none"> 1. Realizing the importance of CRM concepts in modern

	RELATIONSHIP MANAGEMENT	<p>business sectors</p> <ol style="list-style-type: none"> 2. Understanding the components of customer satisfactions 3. Knowing the service quality will bring new customer and to retain the existing customers of the business 4. Awareness of using modern technology and software to create good and effective relationship with customers 5. Knowing the influence of CRM in rural and various service sectors.
15 UCGE 51	LOGISTICS MANAGEMENT	<ol style="list-style-type: none"> 1. The students after studying the following units will be able to Understand the concept of logistics and its role in supply chain management. 2. Explain the process of demand management and the importance of customer service standard and strategy. 3. Review the role of purchase in logistics management and the various criterias to be followed in vendor selection for organizations. 4. Outline the determinants of location selection for warehouse and the various decisions concerning warehouse. 5. Describe the factors affecting the selection of material handling equipments and the role of packing in warehousing.
15 UCG 61	ENTREPRENEURIAL TRAINING AND DEVELOPMENT	<ol style="list-style-type: none"> 1. After undergoing this paper the students will be able to: 2. Understand the concept of entrepreneur, entrepreneurship and women entrepreneurship. 3. Acquire knowledge about the entrepreneurial motivation and competencies of entrepreneurs. 4. Know the process of Entrepreneurship Development Programmes. 5. understand the rural entrepreneurship and project management 6. The institutional support and incentives provided to entrepreneurs.
15 UCG 62	MANAGEMENT ACCOUNTING	<ol style="list-style-type: none"> 1. Students can describe the role of accounting information system and its limitations.

		<ol style="list-style-type: none"> 2. Students can explain the concepts and procedures of financial reporting, including income statement, statement of retained earnings, balance sheet, and statement of cash flows. 3. To prepare an income statement required for external reporting and a different one more useful to managers for managerial decision-making. 4. To identify cost classifications based on how the cost will be used: whether for preparing external reports, predicting cost behavior, assigning costs to cost objects, or decision making. 5. Locate and analyze financial data from annual reports of corporations.
15 UCG 63	AUDITING	<ol style="list-style-type: none"> 1. Understand well the fundamental concept of various components of Auditing 2. Realizing the importance of internal checking on various transactions in business 3. Bringing alertness to have a documentary evidence for every transactions of business 4. Empowered the students with different methods of valuing the various assets and liabilities of the company 5. Awareness of various accounting standards on various items of accounting
15 UCG 64	BUSINESS COMMUNICATION	<ol style="list-style-type: none"> 1. The students understand the concept of business communication 2. The students aware of the various forms of corporate communication 3. The students acquire knowledge regarding the writing skills and report writing 4. The students get idea about the listening skills and factors affecting the listening skills 5. The students have knowledge regarding the modern form of communications
15 UCGE	FINANCIAL SERVICES	At the end of the course the students are able to

61		<ol style="list-style-type: none"> 1. Get Awareness of the various scope of financial services 2. Get Knowledge on financial services available in India 3. Get Knowledge on Leasing and its advantages 4. Get Awareness towards investment avenues 5. Get Knowledge on credit rating and SEBI guidelines
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		7.

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Course Code	Course	Course Outcome
15 PCO 11	BUSINESS ENVIRONMENT	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Got awareness on surrounding of the business 2. Knowing well the advanced technological influence on business 3. Understanding the importance of the government interventions on various business activities 4. Get a clear knowledge about the various economics systems and its impacts on business performance 5. Knowing clear picture of the impact of culture and nature on business environment
15 PCO 12	ADVANCED CORPORATE ACCOUNTING	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Prepare insurance company accounts 2. Prepare accounts of Electricity Company 3. Knowledge on inflation accounting 4. Knowledge on various accounting standards and their applications
15 PCO 13	BUSINESS ETHICS AND CORPORATE SOCIAL RESPONSIBILITY	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Acquire a basic and clear understanding of ethics and the principles of moral decision-making in global business.

		<ol style="list-style-type: none"> 2. Analyze the concept corporate governance and its relationship with other concepts 3. Understand the concept of corporate social responsibility 4. Know the important ways in which a nation's business laws and regulations affect business and society. 5. Identify the process of social accounting, auditing and reporting
15 PCO 14	EXECUTIVE EXCELLENCE	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept of self-awareness and self motivation 2. Aware of the interpersonal skills 3. Acquire knowledge regarding the habit management 4. Get idea about the various issues of time management 5. Have knowledge regarding the stress management and stress coping strategies
15 PCO 21	RESEARCH METHODOLOGY	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Understand the basic concept of Research 2. Aware of the identification of problem specification and research design 3. Acquire knowledge regarding the methods of collecting data and tools used to collect the data 4. Get idea about the data processing and analysis 5. Have knowledge regarding the report writing and presentation
15 PCO 22	ORGANISATIONAL BEHAVIOUR	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Understand the competencies required for leaders involved in managing human force at work. 2. Describe how learning takes place and the various guidelines to enhance organizational commitment. 3. Identify the various factors to be incorporated in a reward system and the aspects influencing the effectiveness of teams. 4. Explain the basic principles of ethical decision making and the various pressures for organizations to change their pattern of functioning. 5. Appreciate the different roles played by managers to blend the goals of organizations and the human element at work.

15 PCO 23	HUMAN RESOURCE MANAGEMENT	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Demonstrate an understanding of key terms, theories/concepts and practices within the field of HRM. 2. Demonstrate competence in development and problem-solving in the area of HR Management. 3. Provide innovative solutions to problems in the fields of HRM. 4. Be able to identify and appreciate the significance of the ethical issues in HR. 5. Develop an ability to undertake qualitative and quantitative research.
15 PCO 24	E-COMMERCE	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Understand and learn the different concepts and the usage of electronic commerce. 2. Understand the process of e banking and e advertising 3. Explore the modes of electronic payment system and discuss the techniques and technologies used to process online payments. 4. Understand current threats faced by business online and how to mitigate these challenges, 5. Develop the overall understanding of mobile commerce
15 PCOE 21	QUANTITATIVE TECHNIQUES	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. understand the need and importance of operations research 2. enhance skills on mathematical decision making 3. have knowledge on transportation problems 4. have thorough knowledge on assignment problems 5. find the feasible time to replace the machinery

15 PCO 31	BUSINESS TAXATION	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none">1. Compute the firm's income, income of the partners2. Acquire practical knowledge to Plan and compute tax payable by the companies3. Understand the GST and person liable to pay GST4. Knowledge about GST input tax credit and registration of GST5. Understand the procedure for the payment of GST and appeals for GST
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15 PCO 32	SECURITIES ANALYSIS AND PORTFOLIO MANAGEMENT	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Understand the discipline of portfolio management and its importance. 2. Realize the significance of return and risk in investing in securities. 3. Get adequate knowledge about the two important analysis involved in security analysis namely fundamental analysis and technical analysis. 4. Get sufficient knowledge about the valuation of shares and bonds. 5. Understand the concept of portfolio evaluation and portfolio revision along with their importance in security analysis and portfolio management.
15 PCO 33	STATISTICS FOR RESEARCH	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept of statistics 2. Aware of the testing of hypothesis 3. Acquire knowledge regarding the correlation and regression analysis 4. Get idea about the non-parametric tests 5. Have knowledge regarding the statistical decision theory
15 PCO 34	FINANCIAL MARKETS AND INSTITUTIONS	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Understand the financial system and its role in economic development of a nation 2. Aware of the components of financial market 3. Acquire knowledge regarding the banking and non-banking institutions for providing the financial services 4. Get idea about the various innovative financial instruments and financial services 5. Acquire knowledge regarding the financial service institutions under financial system
15 PCOE 35	ADVANCED COST AND MANAGEMENT ACCOUNTING	<p>At the end of the students will be able to</p> <ol style="list-style-type: none"> 1. Describe how cost accounting is used for decision making and performance evaluation. 2. Explain the basic concept of cost and how costs are

		<p>presented in financial statements.</p> <ol style="list-style-type: none"> 3. Asses how cost-volume-profit is related and uses CVP analysis as a planning and decision making aid. 4. Prepare a budget and use budgets for performance evaluation after flexing the budget. 5. Summarize process cost accounting and prepare a process cost report.
15 PCO 41	FINANCIAL MANAGEMENT	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Aware of the discipline of financial management with special focus on its nature and goals. 2. Know the concept of investment decisions in general and project appraisal techniques in particular. 3. Understand the topic cost of capital and they will be able to realize its significance in arriving at financial decision. 4. Take financing decision element and they are equipped with the role of optimum capital structure in attaining the goals of financial management. 5. Acquire adequate knowledge about the concept and importance of dividend decision in maximizing the net value of an enterprise.
15 PCO 42	INTERNATIONAL FINANCIAL MANAGEMENT	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Understand the International monetary system 2. Aware of the International investment and capital flows 3. Acquire knowledge regarding the foreign exchange market and forward market instruments 4. Get idea about the foreign exchange management act 5. Have knowledge regarding the International banking debt and risk
15 PCO 43	PROJECT MANAGEMENT AND ENTREPRENEURSHIP	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. understand the concept and role of entrepreneurship in economic development and rural development 2. acquire practical knowledge about project identification 3. understand the formulation of a project 4. gain knowledge about appraisal of project 5. understand the institutional support to entrepreneurs

15 PCO 44	TOTAL QUALITY MANAGEMENT	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Understand the importance of quality leaders and quality council for bringing quality management. 2. Knowing well about offering quality service to the customer. 3. Realizing the influence of Team work for maintaining quality in service. 4. Get awareness on problem solving methods in business 5. Understand the importance of benchmarking and quality management system
15 PCO 45	Project	<p>At the end of the course students will be able to understand</p> <ol style="list-style-type: none"> 1.the importance of research in the development of society. 2.the importance of analysing the problems in different ways. 3.the techniques of applying various tools to find answers to the problems. 4.the research design 5.the research methodology and the use of research in different fields.

M.PHIL

Course Code	Course	Course Outcome
	RESEARCH METHODS AND COMPUTER AIDED DATA ANALYSIS	<p>After undergoing this paper the students will be able to:</p> <ol style="list-style-type: none"> 1. understand the research methods and the process of identifying the research problem 2. acquire knowledge about SPSS package for statistical analysis 3. gain practical experience in data processing and analysis 4. analyse and interpret results using SPSS package 5. gain knowledge about drafting of thesis
	ADVANCED FUNCTIONAL MANAGEMENT	<p>After undergoing this paper the students will be able to:</p> <ol style="list-style-type: none"> 1. acquire knowledge about entrepreneurial management 2. enlarge their understanding about marketing management 3. gain more information about financial management and practical experience in data processing and analysis 4. understand the importance of human resource management and the impact of globalization on HRD 5. understand the need and the role of ICT Management

	ECONOMIC REFORMS IN INDIA	<p>After undergoing this paper the students will be able to:</p> <ol style="list-style-type: none"> 1. gain knowledge about fiscal and monetary policies of the central government 2. understand the rationale of Internal and External reforms, impact of Liberalization, Privatizations and Globalizations 3. gain more information about banking sector reforms and financial inclusion 4. understand the working of Insurance Development and Regulatory Authority (IRDA) and the private players in Indian Insurance market. 5. acquire knowledge about capital market reforms and the SEBI's guidelines for capital market
	Dissertation & Viva Voce Examination	<p>At the end of the course students will be able to understand</p> <ol style="list-style-type: none"> 1. the importance of research and selection of research problems . 2. the importance of analysing the problems in different ways. 3. the techniques of applying various tools to find answers to the problems. 4. the research design 5. the research methodology and the use of research in different fields.

Ph. D

Course Code	Course	Course Outcome
15PHDC01	Mini project	<p>At the end of the course the students will be able to understand</p> <ol style="list-style-type: none"> 1. the importance of research in the development of society. 2. the importance of analysing the problems in different ways. 3. the techniques of applying various tools to find answers to the problems. 4. the research design 5. the research methodology and the use of research in different fields
15PHDC02	Buying	At the end of the course students will be able to understand

	behaviour	<ol style="list-style-type: none"> 1.the consumer behaviour 2.to identify the consumer buying behaviour 3.and familiarize with the consumer decision making process 4.the consumer behaviour in Indian context.
15PHDC03	Economics of labour and labour migrations	<p>At the end of the course students will be able to understand</p> <ol style="list-style-type: none"> 1.Understand the economics of labour 2.Familiarise with work environment and the labour welfare 3.Realise the causes of labour migration and its impact 4.Understand the international labour standards on labour migration
15PHDC04	Strategic brand management	<p>At the end of the course students will be able to understand</p> <ol style="list-style-type: none"> 1.Understand the concept of brand management 2.Familiarise with development of brand strategy 3.Able to understand the process of measurement of brand performance 4.understand the need for sustaining the brand equity
15PHDC05	Employee relationship management	<p>At the end of the course students will be able to understand</p> <p>Familiarising the basic knowledge of ERM</p> <ol style="list-style-type: none"> 2.Aware of various strategies in ERM 3.Realise the importance of change management 4.Familiarising with life coping skills 5.Understand the various contemporary issues in employees relationship
15PHDC06	Agricultural finance	<p>At the end of the course students will be able to understand</p> <ol style="list-style-type: none"> 1.Acquire knowledge about Agriculture Finance 2.understand financing the rural development 3.Familiarise with the primary agriculture cooperative societies 4.Knowledge about Micro Credit and various scheme to support agriculture
15PHDC07	Electronic commerce and internet marketing.	<p>At the end of the course students will be able to understand</p> <ol style="list-style-type: none"> 1.Acquire knowledge about E-Business and its fundamentals 2.Knowledge about website design and construction 3.Familiarise with practical side of the E-Payment 4.Obtain the need for E-Security and Cyber Laws 5.Gaining knowledge about E-business Application

15PHDC08	Services marketing	<p>At the end of the course students will be able to understand</p> <ol style="list-style-type: none"> 1.The research scholars understand the management of service marketing 2. The research scholars get an idea about the service quality 3. The research scholars know the marketing strategies regarding service marketing 4. The research scholars get a clear idea about the hospital marketing
15PHDC09	Retail business management	<p>At the end of the course students will be able to understand</p> <ol style="list-style-type: none"> 1.Understand concept of retail marketing and promotion 2.Gain knowledge about retail location strategy 3.Familiarize with segmenting, targeting and positioning <p>Understanding the emerging trends in retailing</p>
15PHDC10	Modern banking	<p>At the end of the course students will be able to understand</p> <ol style="list-style-type: none"> 1.The research scholars acquire the knowledge regarding the relationship between banker and customer and procedure for opening bank accounts 2. The research scholars understand the duties and responsibilities of banker regarding payment and collection of cheque 3. The research scholars get an idea about the principle of lending and credit facilities and credit management 4. The research scholars know the electronic banking system and new technology 5. The research scholars get a clear idea about the electronic payment system.
15PHDC11	Women entrepreneurship	<p>At the end of the course students will be able to understand</p> <ol style="list-style-type: none"> 1.Understand the need for empowering the women for the entrepreneurial development 2.Acquire knowledge about rural women entrepreneurship and the need to develop the same 3.Realize the problems and challenges of women entrepreneurs
15PHDC12	Organisational behaviour in modern era	<p>At the end of the course students will be able to understand</p> <ol style="list-style-type: none"> 1.Have fundamental knowledge on Organizational Behavior 2.Familiarising the ethical issues in Organizational Behavior

		<p>3.Aware of various Uniqueness of Organizational Behavior</p> <p>4.Realise the importance of Group Behavior</p> <p>5. Knowing the positions of women employee in organisations</p>
15PHDC13	Entrepreneurship development	<p>At the end of the course students will be able to understand</p> <p>1.Demonstrate the fundamentals of entrepreneurship</p> <p>2.Understand the growth and development of women entrepreneurship</p> <p>3.Have the ability to discern distinct entrepreneurial motivation and competencies</p> <p>4.understand the systematic process to select and screen a business idea</p> <p>5.Design strategies for successful implementation of ideas</p>
15PHDC14	Consumer behaviour	<p>At the end of the course students will be able to understand</p> <p>1.Understand the concept of consumer behaviour</p> <p>2.Familiarize with the role of perception and attitude formation in the consumer behaviour</p> <p>3.Aware of the role of group dynamics and consumer reference groups</p> <p>4.Understand the personal influence and opinion leadership in consumer behaviour</p> <p>5.Realize the need for consumerism and the challenges faced by the consumers.</p>
15PHDC15	Marketing research and consumer behaviour	<p>At the end of the course students will be able to understand</p> <p>1.Develop and understanding about the many aspects of consumer behaviour and its applications in marketing</p> <p>2.Understand the conceptual foundations of consumer buying behaviour</p> <p>3.Understand the questionnaire design and research design used in marketing research</p> <p>4.know methodology of conducting researches in marketing domain</p> <p>5.understand theories and research on how consumers make decisions, process information, develop preferences and make choices.</p>
15PHDC16	Institutional	At the end of the course students will be able to understand

	support to entrepreneurs.	<ol style="list-style-type: none"> 1. Demonstrate the entrepreneurship development programmes 2. understand the need for institutional support to entrepreneur 3. have the ability to discern distinct institutional support to small entrepreneurs 4. understand the institutions supporting women entrepreneurship 5. know the taxation benefits to small scale industry
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PGDCAB
POST GRADUATE DIPLOMA IN COMPUTER APPLICATION IN BUSINESS

Course Code	Course	Course Outcome
15 DCB 11	COMPUTER FUNDAMENTALS	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Distinguish the different types of computers and the parts of the computer system. 2. Understand the operating system, its function and its types 3. Understand the word interface and different formatting options in MSWord 4. Create tables and work with graphics, smart art and word art 5. Understand the Excel interface and work with worksheets, charts, functions and formulas 6. Create Power Point presentations 7. Create simple database, forms and reports
15 DCB 21	OFFICE AUTOMATION	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Work with M.S. Word, Powerpoint, Excel and Access. 2. Work with word processing with different formatting 3. Work with database 4. Work with spreadsheets and data management through it 5. Attractive presentations using powerpoint
15 DCB 31	DESKTOP PUBLISHING	<ol style="list-style-type: none"> 1. The students understand the concept Desktop publishing 2. The students can prepare neat documents 3. The students can prepare advertisements 4. The students can edit photos 5. The students can design different cards
15 DCB 41	ACCOUNTING PACKAGES	A student will be able to understand

		<p>1.the concept of managing groups,ledgers and working with ledgers</p> <p>2.learning the cost categories,cost centres,modifying vouchers etc</p> <p>3.the inventory information,types of inventory vouchers,purchase order etc</p> <p>4.the preparation of trial balance,inventory books,cash/fund flow statement.</p> <p>5.the data export,tally ODBC,backup and restore.</p>
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B.COM. OPTIONAL

Course Code	Course	Course Outcome
15 UCG 11	FINANCIAL ACCOUNTING	<ol style="list-style-type: none"> 1. The students will be able to understand the concept and convention of accounting and also the nuances of double entry book keeping. 2. To prepare the final accounts of trading concerns. 3. To realize the concept of depreciation and gain knowledge with regard to various methods of depreciation. 4. To recognize the nature of non trading concern and undertake the concept of income and expenditure account. 5. To understand the meaning of single entry system and the methods of ascertaining profit under this system.
15 UCV A11	COMPUTER FUNDAMENTALS	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Be able to distinguish the different types of computers and the parts of the computer system. 2. Understand the operating system, its function and its types 3. Understand the basics of network, internet and the World Wide Web 4. Acquire basic knowledge about database and programming languages 5. Understand the features of Windows 7
15 UNM 11	SALESMANSHIP	<ol style="list-style-type: none"> 1. The students after studying the following units will be able to understand the meaning of salesmanship and its significance in the modern era. 2. To explain the qualities of a successful sales person including

		<p>the process of selling.</p> <ol style="list-style-type: none"> 3. To identify the various skills required for selling including the competencies required for managing sales territories. 4. Discuss the method of closing a sales transaction. 5. Apply the knowledge gained in salesmanship in a real life situation and evaluate himself on the level of competency acquired in selling.
15 UCG 21	MARKETING	<ol style="list-style-type: none"> 1. The students after studying the following units will be able to understand the concept of marketing and its related dimensions including the various approaches to the study of marketing. 2. Discuss the significance and the various factors affecting marketing mix and the role of segmentation as a strategy for success in marketing. 3. Differentiate the various stages of product lifecycle and the process involved in new product development. 4. Analyze the factors affecting price determination and the methods of pricing. 5. Apply the knowledge gained in the selection of distribution channels for products and services and in understanding the role of intermediaries in distribution.
15UCV A 21	OFFICE AUTOMATION	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Work with M.S. Word, Poewerpoint, Excel and Access. 2. Work with word processing with different formatting 3. Work with database 4. Work with spreadsheets and data management through it 5. Attractive presentations using powerpoint
15 UNM 21	BASIC ACCOUNTANCY	<ol style="list-style-type: none"> 1. To learn the concept and role of accounting in the modern business 2. To conceptually define accounting and bookkeeping 3. To identify the accounting rules required for the business enterprises. 4. To apply the accounting rules in determining financial results. 5. To prepare financial statements.

15 USB 22	IMPORT AND EXPORT PROCEDURES	<p>A student will be able to understand</p> <ol style="list-style-type: none"> 1. Concept of internal and international trade. 2. the procedure of import of capital goods 3. Problems in the Indian export sector. 4. Procedure for customs clearance.
15 UCG31	BUSINESS ACCOUNTING	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1) Familiarize the branch and departmental accounts 2) Understand the accounts of insurance claims 3) Acquire knowledge with regards to Hire purchase and installment accounts 4) Get a clear idea about the admission and retirement of partnership accounts 5) Understand the accounts of deceased partner and dissolution of partnership accounts
15 UCG 32	ACCOUNTING PACKAGES	<p>A student will be able to understand</p> <ol style="list-style-type: none"> 1.the concept of managing groups,ledgers and working with ledgers 2.learning the cost categories,cost centres,modifying vouchers etc 3.the inventory information,types of inventory vouchers,purchase order etc 4.the preparation of trial balance,inventory books,cash/fund flow statement. 5.the data export,tally ODBC,backup and restore.
15 UCV 33	C PROGRAMMING	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Get an overview of C Language 2. Understand the different types of operators and use those operators in arithmetic expressions 3. Understand and apply decision making and looping statements in C 4. Understand arrays and strings in C 5. Be able to create user defined functions and structures
15 UCGA 31	BUSINESS MATHEMATICS	<ol style="list-style-type: none"> 1. It helps the students to understand the interdependent of various sectors and to find out contribution of various sectors. 2. Students will become familiar in calculating different types of

		<p>interest and its impact on business.</p> <ol style="list-style-type: none"> Students will acquire the knowledge of calculation of Present value and Annuities. Students will be able to solve problems using log tables. Students acquire the knowledge of calculations using binomial and indices.
15 UCV 41	PROGRAMMING WITH JAVA	<p>At the end of the course the students are able to</p> <ol style="list-style-type: none"> Understand the fundamentals of object oriented programming and an overview of JAVA Understand the different types of operators and control structures in JAVA Have a basic knowledge about classes, objects and inheritance Understand the basics of packages, interfaces and exception handling to create simple java programs using OOP concepts.
15 UCG42	CORPORATE ACCOUNTING	<ol style="list-style-type: none"> Formulate preparation of accounts for issue of shares and debentures Gain knowledge regarding redemption of preference shares and debentures Acquire basic knowledge in preparing company final accounts Justify the most suitable methods of valuing shares and goodwill Learn the techniques to reconstruct the accounts of companies internally and externally
15 UCG 43	BUSINESS ORGANISATION AND MANAGEMENT	<ol style="list-style-type: none"> The students understand the nature and objectives of business The students aware of the various forms of business The students acquire knowledge regarding the nature and significance of business management The students get idea about the functions of business management The students have knowledge regarding the functions of management such as staffing, directing and controlling in business
15 UCGA	BUSINESS STATISTICS	<ol style="list-style-type: none"> Students will learn practical importance and the usage of

41		<p>central value and its reliability.</p> <ol style="list-style-type: none"> 2. Students could be able to find out the relationship between various economic parameters. 3. Students will acquire the knowledge of arriving future value by relating the past values. 4. Students could become familiar with the measurement of major economic parameters and its effects. 5. Students will be able to find out the relationship between various attributes and its impact.
15 UCVE 41	MULTIMEDIA	<p>At the end of the semester the students are able to</p> <ol style="list-style-type: none"> 1. Utilize several flash tools and tactics learned throughout the course to produce an interactive flash based website 2. Demonstrate the ability to effectively utilize the timeline and motion tween effects to produce animation 3. Load controls and remove movie clips and masks in movie content also to publish flash movie in numerous formats and contexts in a professional and web friendly 4. Understand the 3DS Max user interface and workflow 5. Able to create content in 3DS max and animate it
15 USB 41	ONLINE TRADING AND DEMAT OPERATIONS	<p>At the end of the course the students will be able to understand the</p> <ol style="list-style-type: none"> 1.on line trading in India 2.mechanism of on-line trading. 3.on line share trading and commodity trading 4.opening of Dematerializations accounts 5.mechanism of Demat operations.
15 UCG 51	CONTEMPORARY BANKING	<ol style="list-style-type: none"> 1. The students understand the concepts of banking 2. The students aware of the components of banking system in India 3. The students acquire knowledge regarding the instrument used in banks 4. The students get idea about the E-banking and its various dimensions 5. The students have knowledge regarding the customer services of banking

15 UCG52	COST ACCOUNTING	<ol style="list-style-type: none"> 1. Describe how cost accounting is used for decision making and performance evaluation. 2. Explain the basic concept of cost and how costs are presented in financial statements. 3. Demonstrate how materials, labour and overhead costs are added to a product at each stage of the production cycle. 4. Identify cost classifications based on how the cost will be used: whether for preparing external reports, predicting cost behavior, assigning costs to cost objects, or decision making 5. 5. Recognize that job-order and process costing are being used in service, merchandising as well as manufacturing sectors.
15 UCG 53	INCOME TAX LAW AND PRACTICE	<ol style="list-style-type: none"> 1. Acquired knowledge about the basic provisions, terms and concepts of income tax. 2. Learnt to compute salary income with eligible deduction. 3. Trained to compute the taxable income from house property with deductions. 4. Specialized to find the actual profit or loss of the business and profession. 5. Apprehended the legal principles and the polices governing taxation of capital gains and income from other sources
15 UCG 54	HUMAN RESOURCE MANAGEMENT	<ol style="list-style-type: none"> 1. Thorough knowledge on Human resource management 2. Understanding the importance and maintenance of human resource 3. Ways and means of getting human resource 4. Various ways of training and motivating human resource 5. Evaluating the performance of human resource
15 UCV55	ORACLE	<p>At the end of the course the students are able to</p> <ol style="list-style-type: none"> 1. Understand the basic concepts of Database and Oracle. 2. Define and Manipulate tables in Oracle 3. Perform SET operations, Join operations and to create Sub queries, Views, Synonyms and Sequences in Oracle 4. Understand the basics of PL/SQL 5. To work with Cursors and Exception handling in PL/SQL
15 UCVE	VB.NET	<ol style="list-style-type: none"> 1. At the end of the semester the students are able to

51		<ol style="list-style-type: none"> 2. Understand .NET framework 3. Know about Visual Studio Interface 4. Develop simple windows applications 5. Develop simple web applications 6. Develop applications with database access
15 UCG 61	ENTREPRENEURIAL TRAINING AND DEVELOPMENT	<ol style="list-style-type: none"> 1. After undergoing this paper the students will be able to: 2. Understand the concept of entrepreneur, entrepreneurship and women entrepreneurship. 3. Acquire knowledge about the entrepreneurial motivation and competencies of entrepreneurs. 4. Know the process of Entrepreneurship Development Programmes. 5. understand the rural entrepreneurship and project management 6. The institutional support and incentives provided to entrepreneurs.
15 UCG 62	MANAGEMENT ACCOUNTING	<ol style="list-style-type: none"> 1. Students can describe the role of accounting information system and its limitations. 2. Students can explain the concepts and procedures of financial reporting, including income statement, statement of retained earnings, balance sheet, and statement of cash flows. 3. To prepare an income statement required for external reporting and a different one more useful to managers for managerial decision-making. 4. To identify cost classifications based on how the cost will be used: whether for preparing external reports, predicting cost behavior, assigning costs to cost objects, or decision making. 5. Locate and analyze financial data from annual reports of corporations.
15 UCG 63	AUDITING	<ol style="list-style-type: none"> 1. Understand well the fundamental concept of various components of Auditing 2. Realizing the importance of internal checking on various transactions in business 3. Bringing alertness to have a documentary evidence for every

		<p>transactions of business</p> <ol style="list-style-type: none"> 4. Empowered the students with different methods of valuing the various assets and liabilities of the company 5. Awareness of various accounting standards on various items of accounting
15 UCV 64	DESKTOP PUBLISHING	<ol style="list-style-type: none"> 1. The students understand the concept Desktop publishing 2. The students can prepare neat documents 3. The students can prepare advertisements 4. The students can edit photos 5. The students can design different cards
15 UCGE 61	FINANCIAL SERVICES	<p>At the end of the course the students are able to</p> <ol style="list-style-type: none"> 1. Get Awareness of the various scope of financial services 2. Get Knowledge on financial services available in India 3. Get Knowledge on Leasing and its advantages 4. Get Awareness towards investment avenues 5. Get Knowledge on credit rating and SEBI guidelines

B. COM.

Course Code	Course	Course Outcome
12 UCG 11	INTRODUCTION TO ACCOUNTANCY	<ol style="list-style-type: none"> 1. On the successful completion of the course the student will be able to comprehend the basic concepts of Business Economics. 2. To understand the basic tools of business economic analysis. 3. To know the application of the concepts and economic theories in the business organizations. 4. To acquire skills that will help them to take a rational decisions in issues related to Business Economics. 5. To help the students to understand the sound theoretical framework of the subject of the Business Economics.
12 UCG A11	BUSINESS ECONOMICS	<ol style="list-style-type: none"> 1. On the successful completion of the course the student will be able to comprehend the basic concepts of Business Economics. 2. To understand the basic tools of business economic analysis. 3. To know the application of the concepts and economic theories in the business organizations. 4. To acquire skills that will help them to take a rational decisions in issues related to Business Economics.

		5. To help the students to understand the sound theoretical framework of the subject of the Business Economics.
12 UNM 11	SALESMANSHIP	<ol style="list-style-type: none"> 1. The students after studying the following units will be able to understand the meaning of salesmanship and its significance in the modern era. 2. To explain the qualities of a successful sales person including the process of selling. 3. To identify the various skills required for selling including the competencies required for managing sales territories. 4. Discuss the method of closing a sales transaction. 5. Apply the knowledge gained in salesmanship in a real life situation and evaluate himself on the level of competency acquired in selling.
12 UCG 21	MARKETING	<ol style="list-style-type: none"> 1. The students after studying the following units will be able to understand the concept of marketing and its related dimensions including the various approaches to the study of marketing. 2. Discuss the significance and the various factors affecting marketing mix and the role of segmentation as a strategy for success in marketing. 3. Differentiate the various stages of product lifecycle and the process involved in new product development. 4. Analyze the factors affecting price determination and the methods of pricing. 5. Apply the knowledge gained in the selection of distribution channels for products and services and in understanding the role of intermediaries in distribution.
12 UNM 21	BASIC ACCOUNTANCY	<ol style="list-style-type: none"> 1. To learn the concept and role of accounting in the modern business 2. To conceptually define accounting and bookkeeping 3. To identify the accounting rules required for the business enterprises. 4. To apply the accounting rules in determining financial results. 5. To prepare financial statements.
12 USB 22	IMPORT AND EXPORT	A student will be able to understand

	PROCEDURES	<ol style="list-style-type: none"> 1. Concept of internal and international trade. 2. the procedure of import of capital goods 3. Problems in the Indian export sector. 4. Procedure for customs clearance.
12 UCG31	MANAGERIAL COMMUNICATION	<ol style="list-style-type: none"> 1. The students understand the concept of business communication 2. The students aware of the various forms of corporate communication 3. The students acquire knowledge regarding the writing skills and report writing 4. The students get idea about the listening skills and factors affecting the listening skills 5. The students have knowledge regarding the modern form of communications
12 UCG 32	ACCOUNTING PACKAGES	<p>A student will be able to understand</p> <ol style="list-style-type: none"> 1.the concept of managing groups,ledgers and working with ledgers 2.learning the cost categories,cost centres,modifying vouchers etc 3.the inventory information,types of inventory vouchers,purchase order etc 4.the preparation of trial balance,inventory books,cash/fund flow statement. 5.the data export,tally ODBC,backup and restore.
12 UCG 33	COMMERCIAL LAW	<ol style="list-style-type: none"> 1. Understand the basics of Contract Act. 2. Ability to know the execution of contact and the special contracts. 3. Knowledge about the Sale of goods Act. 4. Understand the Negotiable Instruments. 5. Working Knowledge about the Negotiable Instruments.
12 UCGA 31	BUSINESS MATHEMATICS	<ol style="list-style-type: none"> 1. It helps the students to understand the interdependent of various sectors and to find out contribution of various sectors. 2. Students will become familiar in calculating different types of interest and its impact on business. 3. Students will acquire the knowledge of calculation of Present

		<p>value and Annuities.</p> <ol style="list-style-type: none"> Students will be able to solve problems using log tables. Students acquire the knowledge of calculations using binomial and indices.
12 UCG 41	COMPANY LAW	<ol style="list-style-type: none"> The students acquire the Knowledge regarding the procedure for formation of the company The students understand the source of capital and managing the issue of share capital The students get an idea about the management of company The students know the issues regarding the company meeting and proceedings The students get a clear idea about the winding up modes and procedure of a company
12 UCG42	CORPORATE ACCOUNTING	<ol style="list-style-type: none"> Formulate preparation of accounts for issue of shares and debentures Gain knowledge regarding redemption of preference shares and debentures Acquire basic knowledge in preparing company final accounts Justify the most suitable methods of valuing shares and goodwill Learn the techniques to reconstruct the accounts of companies internally and externally
12 UCG 43	BUSINESS ORGANISATION AND MANAGEMENT	<ol style="list-style-type: none"> The students understand the nature and objectives of business The students aware of the various forms of business The students acquire knowledge regarding the nature and significance of business management The students get idea about the functions of business management The students have knowledge regarding the functions of management such as staffing, directing and controlling in business
12 UCGA 41	BUSINESS STATISTICS	<ol style="list-style-type: none"> Students will learn practical importance and the usage of central value and its reliability. Students could be able to find out the relationship between various economic parameters.

		<ol style="list-style-type: none"> 3. Students will acquire the knowledge of arriving future value by relating the past values. 4. Students could become familiar with the measurement of major economic parameters and its effects. 5. Students will be able to find out the relationship between various attributes and its impact.
12 UCGE 41	PRINCIPLES AND PRACTICE OF INSURANCE	<p>At the end of the course the students will be able to understand</p> <ol style="list-style-type: none"> 1.the concepts of different types of insurance 2.concept and feature of life insurance 3.marine insurance and marine loss 4.the fire insurance ,principles and features 5.the national agricultural insurance scheme,motor vehicle insurance,health insurance.
12 USB 41	ONLINE TRADING AND DEMAT OPERATIONS	<p>At the end of the course the students will be able to understand the</p> <ol style="list-style-type: none"> 1.on line trading in India 2.mechanism of on-line trading. 3.on line share trading and commodity trading 4.opening of Dematerializations accounts 5.mechanism of Demat operations.
12 UCG 51	CONTEMPORARY BANKING	<ol style="list-style-type: none"> 1. The students understand the concepts of banking 2. The students aware of the components of banking system in India 3. The students acquire knowledge regarding the instrument used in banks 4. The students get idea about the E-banking and its various dimensions 5. The students have knowledge regarding the customer services of banking
12 UCG52	COST ACCOUNTING	<ol style="list-style-type: none"> 1. Describe how cost accounting is used for decision making and performance evaluation. 2. Explain the basic concept of cost and how costs are presented in financial statements. 3. Demonstrate how materials, labour and overhead costs are added to a product at each stage of the production cycle.

		<ol style="list-style-type: none"> 4. Identify cost classifications based on how the cost will be used: whether for preparing external reports, predicting cost behavior, assigning costs to cost objects, or decision making 5. Recognize that job-order and process costing are being used in service, merchandising as well as manufacturing sectors.
12 UCG 53	HUMAN RESOURCE MANAGEMENT	<ol style="list-style-type: none"> 1. Thorough knowledge on Human resource management 2. Understanding the importance and maintenance of human resource 3. Ways and means of getting human resource 4. Various ways of training and motivating human resource 5. Evaluating the performance of human resource
12 UCG 54	INCOME TAX LAW AND PRACTICE	<ol style="list-style-type: none"> 1. Acquired knowledge about the basic provisions, terms and concepts of income tax. 2. Learnt to compute salary income with eligible deduction. 3. Trained to compute the taxable income from house property with deductions. 4. Specialized to find the actual profit or loss of the business and profession. 5. Apprehended the legal principles and the polices governing taxation of capital gains and income from other sources
12 UCG55	CORPORATE RESTRUCTURING	<p>At the end of the course the students will be able to understand the</p> <ol style="list-style-type: none"> 1.forces driving restructuring initiatives 2.maximum and minimum exchange ratio for the acquiring firm 3.factors affecting gains in acquisition 4.real options in mergers and acquisitions 5. Take overs procedures and regulations for takeover.
12 UCGE 51	STOCK MARKET OPERATIONS	<p>At the end of the course the students will be able to understand the</p> <ol style="list-style-type: none"> 1.concept of Indian capital market instruments 2.functions of primary market 3.national stock system ,Depository system etc 4.detail study on the operation of stock exchange. 5.derivatives and recent trends in Indian stock market.
12 UCG 61	ENTREPRENEURIAL	<ol style="list-style-type: none"> 1. After undergoing this paper the students will be able to:

	TRAINING AND DEVELOPMENT	<ol style="list-style-type: none"> 2. Understand the concept of entrepreneur, entrepreneurship and women entrepreneurship. 3. Acquire knowledge about the entrepreneurial motivation and competencies of entrepreneurs. 4. Know the process of Entrepreneurship Development Programmes. 5. understand the rural entrepreneurship and project management 6. The institutional support and incentives provided to entrepreneurs.
12 UCG 62	MANAGEMENT ACCOUNTING	<ol style="list-style-type: none"> 1. Students can describe the role of accounting information system and its limitations. 2. Students can explain the concepts and procedures of financial reporting, including income statement, statement of retained earnings, balance sheet, and statement of cash flows. 3. To prepare an income statement required for external reporting and a different one more useful to managers for managerial decision-making. 4. To identify cost classifications based on how the cost will be used: whether for preparing external reports, predicting cost behavior, assigning costs to cost objects, or decision making. 5. Locate and analyze financial data from annual reports of corporations.
12 UCG 63	AUDITING	<ol style="list-style-type: none"> 1. Understand well the fundamental concept of various components of Auditing 2. Realizing the importance of internal checking on various transactions in business 3. Bringing alertness to have a documentary evidence for every transactions of business 4. Empowered the students with different methods of valuing the various assets and liabilities of the company 5. Awareness of various accounting standards on various items of accounting
12 UCG 64	INDIRECT TAXES	At the end of the course the students will be able to understand the

		1.concept of VAT&Service tax 2.kinds of excise duty. 3.valuation of excisable goods. 4.types of customs duty,valuation of goods etc 5.import and export procedure,clearance of Re-export
12 UCGE 61	FINANCIAL SERVICES	At the end of the course the students are able to 1. Get Awareness of the various scope of financial services 2. Get Knowledge on financial services available in India 3. Get Knowledge on Leasing and its advantages 4. Get Awareness towards investment avenues 5. Get Knowledge on credit rating and SEBI guidelines

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Course Code	Course	Course Outcome
12 PCO 11	BUSINESS ENVIRONMENT	At the end of the course the students will be able to 1. Got awareness on surrounding of the business 2. Knowing well the advanced technological influence on business 3. Understanding the importance of the government interventions on various business activities 4. Get a clear knowledge about the various economics systems and its impacts on business performance 5. Knowing clear picture of the impact of culture and nature on business environment
12 PCO 12	ADVANCED CORPORATE ACCOUNTING	At the end of the course the students will be able to 1. Prepare insurance company accounts 2. Prepare accounts of Electricity Company 3. Knowledge on inflation accounting 4. Knowledge on various accounting standards and their applications
12 PCO 13	MANAGERIAL ECONOMICS	At the end of the course the students will be able to Understand the 1.Role and responsibilities of a managerial economist. 2.detreminants of demand forecasting.

		<p>3.production and cost analysis 4.methods of pricing decisions 5.theories of profit planning and forecasting</p>
12 PCO 14	EXECUTIVE EXCELLENCE	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept of self-awareness and self motivation 2. Aware of the interpersonal skills 3. Acquire knowledge regarding the habit management 4. Get idea about the various issues of time management 5. Have knowledge regarding the stress management and stress coping strategies
12 PCOE 11	ORGANISATIONAL BEHAVIOUR	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Understand the competencies required for leaders involved in managing human force at work. 2. Describe how learning takes place and the various guidelines to enhance organizational commitment. 3. Identify the various factors to be incorporated in a reward system and the aspects influencing the effectiveness of teams. 4. Explain the basic principles of ethical decision making and the various pressures for organizations to change their pattern of functioning. 5. Appreciate the different roles played by managers to blend the goals of organizations and the human element at work.
12 PCO 21	RESEARCH METHODOLOGY	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Understand the basic concept of Research 2. Aware of the identification of problem specification and research design 3. Acquire knowledge regarding the methods of collecting data and tools used to collect the data 4. Get idea about the data processing and analysis 5. Have knowledge regarding the report writing and presentation
12 PCO 22	MARKETING MANAGEMENT	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Analyze the various forces for changes in business and marketing and the fitting mechanism 2. Adopted by organizations to overcome such forces. 3. Differentiate the major drivers of the new economy and the

		<p>concepts data warehousing and data mining.</p> <ol style="list-style-type: none"> 4. Examine the role of market intelligence system in improving the overall performance of 5. Organizations and the various factors influencing the buying decision of consumers. Outline the characteristics of services and its marketing implications and the recent trends in Product support service. 6. Analyze the various tools of marketing communication mix and the various factors involved in 7. Recruitment, Selection, Training and evaluation of sales force in an organisation.
12 PCO 23	HUMAN RESOURCE MANAGEMENT	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Demonstrate an understanding of key terms, theories/concepts and practices within the field of HRM. 2. Demonstrate competence in development and problem-solving in the area of HR Management. 3. Provide innovative solutions to problems in the fields of HRM. 4. Be able to identify and appreciate the significance of the ethical issues in HR. 5. Develop an ability to undertake qualitative and quantitative research.
12 PCO 24	MANAGEMENT OF ORGANIZATIONAL STRESS	<p>At the end of the course the students will be able to understand the</p> <ol style="list-style-type: none"> 1. Stress cycle and integrated transactional process model 2. Effects of organizational stress and importance of stress management in an organization 3. Role conflict and organizational stress 4. Concept of coping mechanism and organizational stress coping strategies 5. Organizational stress factors in india and stress perceptions in public sector and private sector organizations
12 PCOE 21	QUANTITATIVE TECHNIQUES	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. understand the need and importance of operations research 2. enhance skills on mathematical decision making 3. have knowledge on transportation problems

		<ol style="list-style-type: none"> 4. have thorough knowledge on assignment problems 5. find the feasible time to replace the machinery
12 PCO 31	BUSINESS TAXATION	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Compute the firm's income, income of the partners 2. Acquire practical knowledge to Plan and compute tax payable by the companies 3. Understand the GST and person liable to pay GST 4. Knowledge about GST input tax credit and registration of GST 5. Understand the procedure for the payment of GST and appeals for GST

12 PCO 32	SECURITIES ANALYSIS AND PORTFOLIO MANAGEMENT	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Understand the discipline of portfolio management and its importance. 2. Realize the significance of return and risk in investing in securities. 3. Get adequate knowledge about the two important analysis involved in security analysis namely fundamental analysis and technical analysis. 4. Get sufficient knowledge about the valuation of shares and bonds. 5. Understand the concept of portfolio evaluation and portfolio revision along with their importance in security analysis and portfolio management.
12 PCO 33	NEW ERA OF MANAGEMENT	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Understand the changes of a manager in the twenty first century 2. To get an idea about SWOT analysis and corporate social responsibilities 3. Understand the organizational structures and customer relationship management 4. Understand the different types of leadership styles 5. Understand the managing technology and innovations in competitive environment
12 PCO 34	FINANCIAL MARKETS AND INSTITUTIONS	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Understand the financial system and its role in economic development of a nation 2. Aware of the components of financial market 3. Acquire knowledge regarding the banking and non-banking institutions for providing the financial services 4. Get idea about the various innovative financial instruments and financial services 5. Acquire knowledge regarding the financial service institutions under financial system
12 PCOE 35	ADVANCED COST AND MANAGEMENT	<p>At the end of the students will be able to</p> <ol style="list-style-type: none"> 1. Describe how cost accounting is used for decision making

	ACCOUNTING	<p>and performance evaluation.</p> <ol style="list-style-type: none"> 2. Explain the basic concept of cost and how costs are presented in financial statements. 3. Asses how cost-volume-profit is related and uses CVP analysis as a planning and decision making aid. 4. Prepare a budget and use budgets for performance evaluation after flexing the budget. 5. Summarize process cost accounting and prepare a process cost report.
12 PCO 41	FINANCIAL MANAGEMENT AND POLICIES	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Aware of the discipline of financial management with special focus on its nature and goals. 2. Know the concept of investment decisions in general and project appraisal techniques in particular. 3. Understand the topic cost of capital and they will be able to realize its significance in arriving at financial decision. 4. Take financing decision element and they are equipped with the role of optimum capital structure in attaining the goals of financial management. 5. Acquire adequate knowledge about the concept and importance of dividend decision in maximizing the net value of an enterprise.
12 PCO 42	GLOBAL BUSINESS FINANACE	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Understand the choice of can exchange rate system,international reserve currencies 2. Understand the international investment and capital flows 3. Understand the foreign exchange market and forward market instruments 4. Know the regulation and management of foreign exchange 5. To understand the international banking debt and risk
12 PCO 43	PROJECT MANAGEMENT AND ENTREPRENEURSHIP	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. understand the concept and role of entrepreneurship in economic development and rural development 2. acquire practical knowledge about project identification 3. understand the formulation of a project

		<ol style="list-style-type: none"> 4. gain knowledge about appraisal of project 5. understand the institutional support to entrepreneurs
12 PCO 44	TOTAL QUALITY MANAGEMENT	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Understand the importance of quality leaders and quality council for bringing quality management. 2. Knowing well about offering quality service to the customer. 3. Realizing the influence of Team work for maintaining quality in service. 4. Get awareness on problem solving methods in business 5. Understand the importance of benchmarking and quality management system
12 PCO 45	Project	<p>At the end of the course students will be able to understand</p> <ol style="list-style-type: none"> 1.the importance of research in the development of society. 2.the importance of analysing the problems in different ways. 3.the techniques of applying various tools to find answers to the problems. 4.the research design 5.the research methodology and the use of research in different fields.

M.PHIL

Course Code	Course	Course Outcome
	RESEARCH METHODS AND COMPUTER AIDED DATA ANALYSIS	<p>After undergoing this paper the students will be able to:</p> <ol style="list-style-type: none"> 1. understand the research methods and the process of identifying the research problem 2. acquire knowledge about SPSS package for statistical analysis 3. gain practical experience in data processing and analysis 4. analyse and interpret results using SPSS package 5. gain knowledge about drafting of thesis
	ADVANCED FUNCTIONAL MANAGEMENT	<p>After undergoing this paper the students will be able to:</p> <ol style="list-style-type: none"> 1. acquire knowledge about entrepreneurial management 2. enlarge their understanding about marketing management 3. gain more information about financial management and practical experience in data processing and analysis 4. understand the importance of human resource management and

		<p>the impact of globalization on HRD</p> <p>5. understand the need and the role of ICT Management</p>
	ECONOMIC REFORMS IN INDIA	<p>After undergoing this paper the students will be able to:</p> <ol style="list-style-type: none"> 1. gain knowledge about fiscal and monetary policies of the central government 2. understand the rationale of Internal and External reforms, impact of Liberalization, Privatizations and Globalizations 3. gain more information about banking sector reforms and financial inclusion 4. understand the working of Insurance Development and Regulatory Authority (IRDA) and the private players in Indian Insurance market. 5. acquire knowledge about capital market reforms and the SEBI's guidelines for capital market
	Dissertation & Viva Voce Examination	<p>At the end of the course students will be able to understand</p> <ol style="list-style-type: none"> 1. the importance of research and selection of research problems . 2. the importance of analysing the problems in different ways. 3 .the techniques of applying various tools to find answers to the problems. 4. the research design 5.the research methodology and the use of research in different fields.

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Course Code	Course	Course Outcome
12PHDC01	Mini project	<p>At the end of the course the students will be able to understand</p> <ol style="list-style-type: none"> 1.the importance of research in the development of society. 2.the importance of analysing the problems in different ways. 3.the techniques of applying various tools to find answers to the problems.

		<p>4.the research design</p> <p>5.the research methodology and the use of research in different fields</p>
12PHDC02	Buying behaviour	<p>At the end of the course students will be able to understand</p> <p>1.the consumer behaviour</p> <p>2.to identify the consumer buying behaviour</p> <p>3.and familiarize with the consumer decision making process</p> <p>4.the consumer behaviour in Indian context.</p>
12PHDC03	Economics of labour and labour migrations	<p>At the end of the course students will be able to understand</p> <p>1.Understand the economics of labour</p> <p>2.Familiarise with work environment and the labour welfare</p> <p>3.Realise the causes of labour migration and its impact</p> <p>4.Understand the international labour standards on labour migration</p>
12PHDC04	Strategic brand management	<p>At the end of the course students will be able to understand</p> <p>1.Understand the concept of brand management</p> <p>2.Familiarise with development of brand strategy</p> <p>3.Able to understand the process of measurement of brand performance</p> <p>4.understand the need for sustaining the brand equity</p>
12PHDC05	Employee relationship management	<p>At the end of the course students will be able to understand</p> <p>Familiarising the basic knowledge of ERM</p> <p>2.Aware of various strategies in ERM</p> <p>3.Realise the importance of change management</p> <p>4.Familiarising with life coping skills</p> <p>5.Understand the various contemporary issues in employees relationship</p>
12PHDC06	Agricultural finance	<p>At the end of the course students will be able to understand</p> <p>1.Acquire knowledge about Agriculture Finance</p> <p>2.understand financing the rural development</p> <p>3.Familiarise with the primary agriculture cooperative societies</p> <p>4.Knowledge about Micro Credit and various scheme to support agriculture</p>
12PHDC07	Electronic commerce and	<p>At the end of the course students will be able to understand</p> <p>1.Acquire knowledge about E-Business and its fundamentals</p>

	internet marketing.	<p>2.Knowledge about website design and construction</p> <p>3.Familiarise with practical side of the E-Payment</p> <p>4.Obtain the need for E-Security and Cyber Laws</p> <p>5.Gaining knowledge about E-business Application</p>
12PHDC08	Services marketing	<p>At the end of the course students will be able to understand</p> <p>1.The research scholars understand the management of service marketing</p> <p>2. The research scholars get an idea about the service quality</p> <p>3. The research scholars know the marketing strategies regarding service marketing</p> <p>4. The research scholars get a clear idea about the hospital marketing</p>
12PHDC09	Retail business management	<p>At the end of the course students will be able to understand</p> <p>1.Understand concept of retail marketing and promotion</p> <p>2.Gain knowledge about retail location strategy</p> <p>3.Familiarize with segmenting, targeting and positioning</p> <p>Understanding the emerging trends in retailing</p>
12PHDC10	Modern banking	<p>At the end of the course students will be able to understand</p> <p>1.The research scholars acquire the knowledge regarding the relationship between banker and customer and procedure for opening bank accounts</p> <p>2. The research scholars understand the duties and responsibilities of banker regarding payment and collection of cheque</p> <p>3. The research scholars get an idea about the principle of lending and credit facilities and credit management</p> <p>4. The research scholars know the electronic banking system and new technology</p> <p>5. The research scholars get a clear idea about the electronic payment system.</p>
12PHDC11	Women entrepreneurship	<p>At the end of the course students will be able to understand</p> <p>1.Understand the need for empowering the women for the entrepreneurial development</p> <p>2.Acquire knowledge about rural women entrepreneurship and the need to develop the same</p>

		3.Realize the problems and challenges of women entrepreneurs
12PHDC12	Organisational behaviour in modern era	At the end of the course students will be able to understand 1.Have fundamental knowledge on Organizational Behavior 2.Familiarising the ethical issues in Organizational Behavior 3.Aware of various Uniqueness of Organizational Behavior 4.Realise the importance of Group Behavior 5. Knowing the positions of women employee in organisations
12PHDC13	Entrepreneurship development	At the end of the course students will be able to understand 1.Demonstrate the fundamentals of entrepreneurship 2.Understand the growth and development of women entrepreneurship 3.Have the ability to discern distinct entrepreneurial motivation and competencies 4.understand the systematic process to select and screen a business idea 5.Design strategies for successful implementation of ideas
12PHDC14	Consumer behaviour	At the end of the course students will be able to understand 1.Understand the concept of consumer behaviour 2.Familiarize with the role of perception and attitude formation in the consumer behaviour 3.Aware of the role of group dynamics and consumer reference groups 4.Understand the personal influence and opinion leadership in consumer behaviour 5.Realize the need for consumerism and the challenges faced by the consumers.
12PHDC15	Marketing research and consumer behaviour	At the end of the course students will be able to understand 1.Develop and understanding about the many aspects of consumer behaviour and its applications in marketing 2.Understand the conceptual foundations of consumer buying behaviour 3.Understand the questionnaire design and research design used in marketing research 4.know methodology of conducting researches in marketing domain

		5. understand theories and research on how consumers make decisions, process information, develop preferences and make choices.
12PHDC16	Institutional support to entrepreneurs.	At the end of the course students will be able to understand 1. Demonstrate the entrepreneurship development programmes 2. understand the need for institutional support to entrepreneur 3. have the ability to discern distinct institutional support to small entrepreneurs 4. understand the institutions supporting women entrepreneurship 5. know the taxation benefits to small scale industry

PGDCAB
POST GRADUATE DIPLOMA IN COMPUTER APPLICATION IN BUSINESS

Course Code	Course	Course Outcome
12 DCB 11	COMPUTER FUNDAMENTALS	At the end of the course the students will be able to 1. Distinguish the different types of computers and the parts of the computer system. 2. Understand the operating system, its function and its types 3. Understand the word interface and different formatting options in MSWord 4. Create tables and work with graphics, smart art and word art 5. Understand the Excel interface and work with worksheets, charts, functions and formulas 6. Create Power Point presentations 7. Create simple database, forms and reports
12 DCB 21	OFFICE AUTOMATION	At the end of the course the students will be able to 1. Work with M.S. Word, Powerpoint, Excel and Access. 2. Work with word processing with different formatting 3. Work with database 4. Work with spreadsheets and data management through it 5. Attractive presentations using powerpoint

12 DCB 31	DESKTOP PUBLISHING	<ol style="list-style-type: none"> 1. The students understand the concept Desktop publishing 2. The students can prepare neat documents 3. The students can prepare advertisements 4. The students can edit photos 6. The students can design different cards
12 DCB 41	ACCOUNTING PACKAGES	

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Course Code	Course	Course Outcome
12 UCG 11	INTRODUCTION TO ACCOUNTANCY	<ol style="list-style-type: none"> 1. On the successful completion of the course the student will be able to comprehend the basic concepts of Business Economics. 2. To understand the basic tools of business economic analysis. 3. To know the application of the concepts and economic theories in the business organizations. 4. To acquire skills that will help them to take a rational decisions in issues related to Business Economics. 5. To help the students to understand the sound theoretical framework of the subject of the Business Economics.
12 UCV A11	COMPUTER FUNDAMENTALS	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Be able to distinguish the different types of computers and the parts of the computer system. 2. Understand the operating system, its function and its types 3. Understand the basics of network, internet and the World Wide Web 4. Acquire basic knowledge about database and programming languages 5. Understand the features of Windows 7
12 UNM 11	SALESMANSHIP	<ol style="list-style-type: none"> 1. The students after studying the following units will be able to understand the meaning of salesmanship and its significance in the modern era. 2. To explain the qualities of a successful sales person including the process of selling. 3. To identify the various skills required for selling including the competencies required for managing sales territories.

		<ol style="list-style-type: none"> 4. Discuss the method of closing a sales transaction. 5. Apply the knowledge gained in salesmanship in a real life situation and evaluate himself on the level of competency acquired in selling.
12 UCG 21	MARKETING	<ol style="list-style-type: none"> 1. The students after studying the following units will be able to understand the concept of marketing and its related dimensions including the various approaches to the study of marketing. 2. Discuss the significance and the various factors affecting marketing mix and the role of segmentation as a strategy for success in marketing. 3. Differentiate the various stages of product lifecycle and the process involved in new product development. 4. Analyze the factors affecting price determination and the methods of pricing. 5. Apply the knowledge gained in the selection of distribution channels for products and services and in understanding the role of intermediaries in distribution.
12UCVA 21	OFFICE AUTOMATION	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Work with M.S. Word, Poewerpoint, Excel and Access. 2. Work with word processing with different formatting 3. Work with database 4. Work with spreadsheets and data management through it 5. Attractive presentations using powerpoint
12 UNM 21	BASIC ACCOUNTANCY	<ol style="list-style-type: none"> 1. To learn the concept and role of accounting in the modern business 2. To conceptually define accounting and bookkeeping 3. To identify the accounting rules required for the business enterprises. 4. To apply the accounting rules in determining financial results. 5. To prepare financial statements.
12 USB 22	IMPORT AND EXPORT PROCEDURES	<p>A student will be able to understand</p> <ol style="list-style-type: none"> 1. Concept of internal and international trade. 2. the procedure of import of capital goods

		<p>3. Problems in the Indian export sector.</p> <p>4. Procedure for customs clearance.</p>
12 UCG31	MANAGERIAL COMMUNICATION	<ol style="list-style-type: none"> 1. The students understand the concept of business communication 2. The students aware of the various forms of corporate communication 3. The students acquire knowledge regarding the writing skills and report writing 4. The students get idea about the listening skills and factors affecting the listening skills 5. The students have knowledge regarding the modern form of communications
12 UCG 32	ACCOUNTING PACKAGES	<p>A student will be able to understand</p> <ol style="list-style-type: none"> 1.the concept of managing groups,ledgers and working with ledgers 2.learning the cost categories,cost centres,modifying vouchers etc 3.the inventory information,types of inventory vouchers,purchase order etc 4.the preparation of trial balance,inventory books,cash/fund flow statement. 5.the data export,tally ODBC,backup and restore.
12 UCV 33	C PROGRAMMING	<p>At the end of the course the students will be able to</p> <ol style="list-style-type: none"> 1. Get an overview of C Language 2. Understand the different types of operators and use those operators in arithmetic expressions 3. Understand and apply decision making and looping statements in C 4. Understand arrays and strings in C 5. Be able to create user defined functions and structures
12 UCGA 31	BUSINESS MATHEMATICS	<ol style="list-style-type: none"> 1. It helps the students to understand the interdependent of various sectors and to find out contribution of various sectors. 2. Students will become familiar in calculating different types of interest and its impact on business. 3. Students will acquire the knowledge of calculation of Present

		<p>value and Annuities.</p> <ol style="list-style-type: none"> 4. Students will be able to solve problems using log tables. 5. Students acquire the knowledge of calculations using binomial and indices.
12 UCV 41	DESKTOP PUBLISHING	<ol style="list-style-type: none"> 1. The students understand the concept Desktop publishing 2. The students can prepare neat documents 3. The students can prepare advertisements 4. The students can edit photos 5. The students can design different cards
12 UCG42	CORPORATE ACCOUNTING	<ol style="list-style-type: none"> 1. Formulate preparation of accounts for issue of shares and debentures 2. Gain knowledge regarding redemption of preference shares and debentures 3. Acquire basic knowledge in preparing company final accounts 4. Justify the most suitable methods of valuing shares and goodwill 5. Learn the techniques to reconstruct the accounts of companies internally and externally
12 UCG 43	BUSINESS ORGANISATION AND MANAGEMENT	<ol style="list-style-type: none"> 1. The students understand the nature and objectives of business 2. The students aware of the various forms of business 3. The students acquire knowledge regarding the nature and significance of business management 4. The students get idea about the functions of business management 5. The students have knowledge regarding the functions of management such as staffing, directing and controlling in business
12 UCVA 41	INTERNET AND WEB DESIGN	<ol style="list-style-type: none"> 1. At the end of the course the students are able to 2. Understand client side and server side programming concepts 3. Gain a working knowledge of HTML 4. Understand web concepts 5. Learn simple server and client side data exchange 6. Develop interactive web sites
12 UCGE 41	PRINCIPLES AND PRACTICE OF INSURANCE	<p>At the end of the course the students will be able to understand</p>

		<ol style="list-style-type: none"> 1.the concepts of different types of insurance 2.concept and feature of life insurance 3.marine insurance and marine loss 4.the fire insurance ,principles and features 5.the national agricultural insurance scheme,motor vehicle insurance,health insurance.
12 USB 41	ONLINE TRADING AND DEMAT OPERATIONS	<p>At the end of the course the students will be able to understand the</p> <ol style="list-style-type: none"> 1.on line trading in India 2.mechanism of on-line trading. 3.on line share trading and commodity trading 4.opening of Dematerializations accounts 5.mechanism of Demat operations.
12 UCG 51	CONTEMPORARY BANKING	<ol style="list-style-type: none"> 1. The students understand the concepts of banking 2. The students aware of the components of banking system in India 3. The students acquire knowledge regarding the instrument used in banks 4. The students get idea about the E-banking and its various dimensions 5. The students have knowledge regarding the customer services of banking
12 UCG52	COST ACCOUNTING	<ol style="list-style-type: none"> 1. Describe how cost accounting is used for decision making and performance evaluation. 2. Explain the basic concept of cost and how costs are presented in financial statements. 3. Demonstrate how materials, labour and overhead costs are added to a product at each stage of the production cycle. 4. Identify cost classifications based on how the cost will be used: whether for preparing external reports, predicting cost behavior, assigning costs to cost objects, or decision making 5. Recognize that job-order and process costing are being used in service, merchandising as well as manufacturing sectors.
12 UCG 53	HUMAN RESOURCE MANAGEMENT	<ol style="list-style-type: none"> 1. Thorough knowledge on Human resource management 2. Understanding the importance and maintenance of human

		<p>resource</p> <ol style="list-style-type: none"> 3. Ways and means of getting human resource 4. Various ways of training and motivating human resource 5. Evaluating the performance of human resource
12 UCV 54	MULTIMEDIA	<p>At the end of the semester the students are able to</p> <ol style="list-style-type: none"> 1. Utilize several flash tools and tactics learned throughout the course to produce an interactive flash based website 2. Demonstrate the ability to effectively utilize the timeline and motion tween effects to produce animation 3. Load controls and remove movie clips and masks in movie content also to publish flash movie in numerous formats and contexts in a professional and web friendly 4. Understand the 3DS Max user interface and workflow 5. Able to create content in 3DS max and animate it
12 UCV55	ORACLE	<p>At the end of the course the students are able to</p> <ol style="list-style-type: none"> 1. Understand the basic concepts of Database and Oracle. 2. Define and Manipulate tables in Oracle 3. Perform SET operations, Join operations and to create Sub queries, Views, Synonyms and Sequences in Oracle 4. Understand the basics of PL/SQL 5. To work with Cursors and Exception handling in PL/SQL
12 UCVE 51	VISUAL BASIC	<ol style="list-style-type: none"> 1. At the end of the semester the students are able to 2. Understand Visual programming 3. Know about Visual basic Interface 4. Develop simple windows applications 5. Develop simple web applications 6. Develop applications with database access
12 UCG 61	ENTREPRENEURIAL TRAINING AND DEVELOPMENT	<p>After undergoing this paper the students will be able to:</p> <ol style="list-style-type: none"> 1. Understand the concept of entrepreneur, entrepreneurship and women entrepreneurship. 2. Acquire knowledge about the entrepreneurial motivation and competencies of entrepreneurs. 3. Know the process of Entrepreneurship Development Programmes. 4. understand the rural entrepreneurship and project

		<p>management</p> <p>5. The institutional support and incentives provided to entrepreneurs.</p>
12 UCG 62	MANAGEMENT ACCOUNTING	<ol style="list-style-type: none"> 1. Students can describe the role of accounting information system and its limitations. 2. Students can explain the concepts and procedures of financial reporting, including income statement, statement of retained earnings, balance sheet, and statement of cash flows. 3. To prepare an income statement required for external reporting and a different one more useful to managers for managerial decision-making. 4. To identify cost classifications based on how the cost will be used: whether for preparing external reports, predicting cost behavior, assigning costs to cost objects, or decision making. 5. Locate and analyze financial data from annual reports of corporations.
12 UCG 63	AUDITING	<ol style="list-style-type: none"> 1. Understand well the fundamental concept of various components of Auditing 2. Realizing the importance of internal checking on various transactions in business 3. Bringing alertness to have a documentary evidence for every transactions of business 4. Empowered the students with different methods of valuing the various assets and liabilities of the company 5. Awareness of various accounting standards on various items of accounting
12 UCG 64	PROGRAMMING WITH JAVA	<p>At the end of the course the students are able to</p> <ol style="list-style-type: none"> 1. Understand the fundamentals of object oriented programming and an overview of JAVA 2. Understand the different types of operators and control structures in JAVA 3. Have a basic knowledge about classes, objects and inheritance 4. Understand the basics of packages, interfaces and exception handling

		5. to create simple java programs using OOP concepts.
12 UCCE 61	FINANCIAL SERVICES	<p>At the end of the course the students are able to</p> <ol style="list-style-type: none"> 1. Get Awareness of the various scope of financial services 2. Get Knowledge on financial services available in India 3. Get Knowledge on Leasing and its advantages 4. Get Awareness towards investment avenues 5. Get Knowledge on credit rating and SEBI guidelines

Program

B.Com

Program Options

Corporate Secretaryship

Program Specific Outcomes:

After completing the B.Com Corporate Secretaryship degree course the students will be

- Enriched with in-depth knowledge in different aspects of corporate Secretaryship and Corporate Governance.
- Aware of the legal framework of corporate sector in India.
- Exposed to practical situations of corporate world and imparted with managerial skills.
- Competent to undergo and complete Company Secretaryship course
- Employable in managerial and clerical positions in corporate sectors.

COURSE NAME	COURSE CODE	COURSE OUTCOME
<p style="text-align: center;">FUNDAMENTALS OF ACCOUNTING</p>	<p style="text-align: center;">18 UCP 11</p>	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the basic principles and system of accounting 2. Prepare the final accounts of a business enterprise 3. Apply the different methods of depreciation accounting 4. Prepare accounts from incomplete records under single entry system 5. Understand the important accounting standards
<p style="text-align: center;">BUSINESS ORGANISATION AND MANAGEMENT</p>	<p style="text-align: center;">18 UCPA 11</p>	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept of business, its objectives and elements 2. Gain knowledge on the different forms of business organisation and their merits and demerits 3. Understand the nature and significance of management 4. Understand the importance of planning and organising functions

		<ol style="list-style-type: none"> 5. Gain knowledge on the various functions involved in finding and placing the right human resources and achieving their unified performance towards organisational goals
FUNDAMENTALS OF BUSINESS	18 UNM 11	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept of business and its importance 2. Gain knowledge on different forms of organisations and their merits and demerits 3. Acquire the knowledge about the basic concepts and principles of management 4. Comprehend the environmental aspects influencing the business enterprises and realize the importance of ethics in business operations 5. Acquire knowledge on the recent trends in the world of business
ADVANCED ACCOUNTING	18 UCP 21	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the system of accounting for branches in an organisations and imparted with the skills of preparing branch accounts

		<ol style="list-style-type: none"> 2. Understand the system of accounting for hire purchase and imparted with the ability of preparing the accounts for hire purchase transaction 3. Gain the knowledge and skills for preparing accounts for consignment and joint venture business 4. Understand the accounting steps for various situations of changes in membership in partnership 5. Prepare the accounts of Non-trading organisations
<p>BUSINESS ECONOMICS</p>	<p>18 UCPA 21</p>	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept of economics and the various types of economic system 2. Comprehend the various concepts and laws regarding demand and supply and their determinants 3. Gain knowledge on various economic laws of production and the cost and the various factors determining them 4. Understand and analyse market under different conditions of competitions

		<ol style="list-style-type: none"> 5. Gain knowledge on economic laws associated with the behaviour of consumers
FUNDAMENTALS OF FINANCIAL MANAGEMENT	18 UNM 21	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Gain knowledge on the concepts of finance and financial management 2. Understand the factors determining the capital structure of an enterprise and the decision making process associated with it 3. Gain knowledge on the concept and estimation of cost of capital of an enterprise 4. Understand the different techniques of capital budgeting 5. Understand the concept of working capital management and its different dimensions
OFFICE MANAGEMENT	18 USB 22	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the various functions and importance of an office 2. Visualize the layout and environment of a good office 3. Understand the concept and importance of Office system and procedure 4. Gain knowledge on different

		<p>aspects of records management in an office</p> <p>5. Identify the merits and demerits in centralized and decentralized correspondence and qualities of a good office report</p>
ELEMENTS OF INSURANCE	18USB22	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept and importance of insurance 2. Differentiate between the types of policies and calculation of premium 3. Understand the concept of marine insurance and calculation of premium 4. Gain knowledge on different fire insurance policies and calculation of claims 5. Gain knowledge the important provisions of IRDA Act 1999
BUSINESS COMMUNICATION AND PUBLIC RELATION	18 UCP 31	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the importance and essentials of a good communication system in a business organisation 2. Gain the ability of drafting letters for different situations of business 3. Gain knowledge about inter

		<p>departmental communication and its kinds in organisations</p> <ol style="list-style-type: none"> 4. Gain knowledge on application of recent technological development in business communication 5. Understand the significance of public relations in business and the different ways of achieving it
COMPANY LAW I	18 UCP 32	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept of and characteristics s company 2. Gain knowledge about the process of incorporation of a company and the documents associated therewith 3. Gain knowledge about prospectus and its types and about membership in a company 4. Understand the sources of raising capital and the powers and guidelines associated with borrowing 5. Gain knowledge on the registers, forms and returns of a joint stock company
CORPORATE ACCOUNTING	18 UCP 33	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Gain knowledge on the accounting entries related with

		<p>issue of capital market instruments i.e., shares and debentures</p> <ol style="list-style-type: none"> 2. Gain knowledge on accounting entries related with redemption of shares and debentures 3. Gain the knowledge and the ability of preparing the final accounts of joint stock companies 4. Understand and apply the different methods of valuation of goodwill and shares 5. Gain the ability of preparing accounts for liquidation process of joint stock companies
BUSINESS ENVIRONMENT	18 UCPA 31	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Comprehend the concept and types of Business Environment 2. Identify and analyses the various internal environmental factors influencing a business enterprise 3. Gain knowledge on the external environmental factors influencing business enterprise 4. Understand the recent developments in the economy that influence the functional setting in a business enterprise 5. Analyse the various environmental factors that influence the

		functioning of business enterprise
FUNDAMENTALS OF E-COMMERCE	18 USB 32	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept, dimensions and merits and demerits of E-Commerce 2. Gain knowledge on applications and scope of e-commerce 3. Understand the technology for e-commerce 4. Gain the Skills on important aspects of e-commerce operations 5. Understand and apply the security aspects of e-commerce
EXPORT AND IMPORT PROCEDURE	18 USB 32	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Gain idea about the different methods of exporting and registration formalities for export 2. Understand the process of export documentation and the various documents connected with exports 3. Gain idea about the different categories of importers and the different documents connected with import 4. Understand the procedure for import and customs clearances 5. Gain knowledge on the various export promotion measures in

		India
BUSINESS LAW	18 UCP 41	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Gain idea about the different concepts of contract and the legal provisions associated with contract in India 2. Understand the important legal provisions regarding indemnity, guarantee, Bailment and pledge 3. Understand the concept and types of negotiable instruments and the rights and liabilities of parties to negotiable instruments 4. Gain idea about the different concepts of sales and the legal provisions associated with sales 5. Gain knowledge on the rights of a consumer and consumer redressal system in India
DIRECT TAX – I	18 UCP 42	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Gain conceptual understating on Income and Income Tax 2. Gain knowledge on calculation of Income tax under the head salary 3. Gain knowledge on calculation of Income tax under the head House property 4. Gain knowledge on calculation of

		<p>Income tax under the head Business or Profession</p> <p>5. Understand the system of filing income tax returns</p>
COMPANY LAW – II	18 UCP 43	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Gain knowledge on the management structure of a company and the position of a director in a company 2. Understand the legal provisions regarding convening company meetings 3. Gain knowledge on the rules and provisions for declaring dividend 4. Understand the legal provisions regarding making investments and granting loans by a company 5. Understand the procedure for winding up of a joint stock company
BUSINESS STATISTICS	18 UCPA 41	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Gain conceptual understating on statistics and methods of collection and presentation of data 2. Understand and apply the statistical tools for measuring the central tendency 3. Gain the ability to apply correlation

		<p>and Regression analysis on variables</p> <ol style="list-style-type: none"> 4. Understand and apply the methods of interpolation and extrapolation and association of attributes 5. Understand and apply the different methods of Time Series Analysis
BANKING AND FINANCIAL SERVICES	18 USPE 41	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept and types of Banking and the relationship between banker and a customer 2. Gain knowledge about the various instruments used in Banking transactions and their features 3. Comprehend the banking system in India and the functions of RBI 4. Gain knowledge about the various financial services offered by banking and financial institutions in India 5. Gain conceptual understanding on mutual funds and credit rating system
TOTAL QUALITY MANAGEMENT	18 USPE 41	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept and dimensions of quality management

		<ol style="list-style-type: none"> 2. Gain knowledge on different perspectives and principles of quality 3. Understand the different strategies for quality enhancement 4. Gain knowledge about the tools for Total Quality Management 5. Gain knowledge about the requirements and procedure for ISO registration
BASICS OF STOCK MARKET OPERATIONS	18 USB 41	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Gain basic understating on the capital market and its classifications 2. Understand the functioning of secondary markets 3. Gain knowledge on the capital market instruments dealt with by the securities market 4. Understand the importance and procedure for listing of securities in stock exchanges 5. Gain knowledge on the trading and settlement system in Indian stock markets
CAPITAL MARKET AND SECURITIES LAW	18 UCP 51	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Gain overall understanding on the capital market and capital market

		<p>instruments</p> <ol style="list-style-type: none"> 2. Gain knowledge on the securities market intermediaries and their functions 3. Gain knowledge about the market infrastructure for capital market instruments 4. Understand the process of listing and issue of securities in capital market 5. Understand the regulatory framework for capital market operations in India
<p>COMPANY SECRETARIAL PRACTICE</p>	<p>18 UCP 52</p>	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Comprehend the qualifications and legal status of a company secretary in a company 2. Understand the role of a company secretary with regards to the Board meetings of a company 3. Understand the role of a company secretary with regards to the annual general meetings of a company 4. Gain knowledge on the legal provisions and procedures for company meetings 5. Gain knowledge on the secretarial standards issued by the ICSI

<p style="text-align: center;">HUMAN RESOURCE MANAGEMENT</p>	<p style="text-align: center;">18 UCP 53</p>	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept of human resource management and its various perspectives. 2. Understand the process of job analysis and recruitment of the right person for the right job 3. Gain knowledge on the procedure and methods of evaluating a job and training the employees 4. Understand the different types of leadership and theories of motivating the employees 5. Gain the knowledge of different employee' performance appraisal methods
<p style="text-align: center;">COST ACCOUNTING</p>	<p style="text-align: center;">18 UCP 54</p>	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concepts of cost and cost accounting 2. Understand and apply the different methods of material costing and techniques of material cost control 3. Gain the knowledge of different systems of calculation of wages and ability of computing labour cost 4. Understand and apply the methods

		<p>of computation of cost for job orders and contract</p> <p>5. Gain knowledge and skill of preparing process cost accounts</p>
DIRECT TAX II	18 UCP 55	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Gain conceptual understating on Capital gain and provisions regarding its computation 2. Gain knowledge on calculation of Income from other sources 3. Gain knowledge on the provisions regarding clubbing of income 4. Gain knowledge on calculation of total income and deductions for individuals 5. Understand the jurisdiction of income tax authorities and the system of making appeals
ECONOMIC LEGISLATIONS	18 UCPE 51	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Gain knowledge on the important legal provisions with regard to competition 2. Understand the important legal provisions with regard to foreign exchange 3. Gain knowledge on the legal provisions relating to intellectual property rights 4. Understand the legal provisions

		<p>regulating the potions caused by business enterprises</p> <p>5. Gain knowledge on the law relating to industrial development and regulation</p>
FINANCIAL REGULATORIES	18 UCPE 51	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept of finance and financial regulation 2. Gain knowledge on RBI's regulations in India 3. Gain knowledge on SBI's regulations in India 4. Gain understanding about IRDA and its regulations 5. Understand the concept of provident fund and the regulations regarding it in India
MANAGEMENT ACCOUNTING	18 UCP 61	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept of management accounting and tools and techniques of financial statement analysis 2. Gain knowledge and ability to analyse the financial statements with the help of ratios and cash flow and fund flow analysis 3. Gain understanding on the concepts and applications of marginal costing

		<ol style="list-style-type: none"> 4. Understand the concept and types of budgets and the system of budgetary control in a business organisation 5. Understand the concept of standard costing and gain the ability of analysing the variances between the standards and actual costs
CORPORATE GOVERNANCE	18 UCP 62	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Gain conceptual understanding on corporate governance and its elements 2. Comprehend the legislative framework of Corporate governance in India 3. Understand the role of Board of Directors in ensuring corporate Governance 4. Understand the corporate governance relating to the various stakeholders 5. Understand the importance of Corporate Social Responsibility and corporate sustainability initiatives of a company
INDIRECT TAXES	18 UCP 63	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept and modes of GST and definitions under GST Act

		<ol style="list-style-type: none"> 2. Understand the concept of Supply and its dimensions under GST Act 3. Gain understanding on the provisions of the GST Act about Input Tax credit 4. Gain knowledge on important provisions of Integrated GST Act 5. Understand the system of valuing and levying customs duty
INDUSTRIAL AND LABOUR LAW	18 UCP 64	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Acquire knowledge about the important provisions of Factories Act regarding the welfare of its workers 2. Gain knowledge about the legal provisions regarding the minimum wages for workers in India 3. Gain knowledge about the different aspects of and settlement mechanisms for industrial disputes 4. Acquire knowledge about the obligations and responsibilities of employees with regards to the compensation payment to the employees 5. Get conceptual understanding on labour audit and its methodology
ENTREPRENEURIAL DEVELOPMENT	18 UCPE 61	<p>After studying the following units of this subject, the student will be able to</p>

		<ol style="list-style-type: none"> 1. Understand the concept of entrepreneurship and the qualities of a good entrepreneur 2. Identify the factors motivating entrepreneurship and gain awareness on entrepreneurial development programme 3. Assess the feasibility of a project and to make project proposals 4. Gain knowledge on governmental initiatives and assistance provided for entrepreneurial development in India 5. Understand the concept of social entrepreneurship and women entrepreneurship and the challenges for them
PROJECT	18 UCPE 61	<p>By undergoing this programme, the student will be able to</p> <ol style="list-style-type: none"> 1. Gain learning opportunities outside the classroom 2. Gain the ability to apply classroom theory to real life situations 3. Get on-the-job training experience in some specific managerial function 4. Enhance their self-management and the relationship management skills 5. Identify the career opportunities and test their career goals
BASICS OF CORPORATE ACCOUNTING	18 CPEC 11	<p>After studying the following units of this subject, the student will be able to</p>

		<ol style="list-style-type: none"> 1. Understand the concept and procedure of issuing and underwriting of equity shares 2. Understand the concept and procedure of issuing and redemption of preference shares 3. Gain the skill of preparing company final accounts 4. Gain knowledge on calculation of profit prior to incorporation 5. Gain knowledge on valuation of goodwill and share
FUNDAMENTALS OF BANKING	18 CPEC 21	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept of banking and the types of bank accounts 2. Understand the procedure and precautions for opening bank accounts 3. Understand and differentiate the various negotiable instruments used in banking operations 4. Gain knowledge on crossing, endorsements and material alterations of cheques and their significance 5. Gain knowledge on various e-banking operations and their merits and demerits
MARKETING MANAGEMENT	18 CPEC 31	<p>After studying the following units of this subject, the student will be able to</p>

		<ol style="list-style-type: none"> 1. Understand the concept and the various dimensions of marketing 2. Gain knowledge on the various aspects of decision making with regards to product 3. Comprehend the different pricing methods and the factors influencing pricing decisions 4. Understand the different types of channel of distribution and be able to analyse the factors to be considered in selecting the suitable one 5. Gain knowledge on the various strategies to promote the product of a business enterprise and its sales
SERVICES MARKETING	18 CPEC 41	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept of services and the problems associated with service marketing 2. Gain knowledge about the concept of service product and various service product strategies 3. Gain understanding on factors influencing pricing of services and the various strategies for pricing service products 4. Understand the distribution channel and the methods of

		<p>distribution of service products</p> <p>5. Gain knowledge on the different dimensions of service quality and the problems associated with quality management</p>
AUDITING	18 UCP 51	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the principles and procedures of auditing 2. Gain knowledge on the concept and process of internal check system 3. Understand the concept and the procedures for vouching 4. Gain knowledge on the different methods of verification and valuation of assets and liabilities 5. Comprehend the legal status of a company auditor and the contents of an audit report
BUSINESS ETHICS	18 CPEC 61	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept of business ethics and the factors influencing ethics in business 2. Realize the mutual obligations between the employer and employees of an organisation 3. Understand the ethical aspects in production and operation

		<p>management</p> <ol style="list-style-type: none"> 4. Gain knowledge and the ability to analyse the ethical aspects in functions of marketing 5. Realise ethical aspects in Human Resource Management
FINANCIAL ACCOUNTING – I	15UCP11	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the basic principles and system of accounting 2. Prepare the final accounts of a business enterprise 3. Apply the different methods of depreciation accounting 4. Prepare accounts from incomplete records under single entry system 5. Understand the important accounting standards
CORPORATE COMMUNICATION	15UCPA11	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the importance and essentials of a good communication system in a business organisation 2. Gain the ability of drafting letters for different situations of business 3. Gain knowledge about inter departmental communication and its kinds in organisations

		<ol style="list-style-type: none"> 4. Gain knowledge on application of recent technological development in business communication 5. Understand the significance of public relations in business and the different ways of achieving it
CORPORATE CONCEPT	15UNM11	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the component of business and industries 2. Understand how to lead a company 3. Understand the role of share holders and stake holders 4. Understand the equity and preferences share capital 5. Understand the procedure for long term borrowings 6. Understand the reason trends in corporate sector
FINANCIAL ACCOUNTING –II	15UCP21	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the basic principles and system of accounting 2. Prepare the final accounts of a

		<p>business enterprise</p> <ol style="list-style-type: none"> 3. Apply the different methods of depreciation accounting 4. Prepare accounts from incomplete records under single entry system 5. Understand the important accounting standards
OFFICE MANAGEMENT	15UCPA21	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the various functions and importance of an office 2. Visualize the layout and environment of a good office 3. Understand the concept and importance of Office system and procedure 4. Gain knowledge on different aspects of records management in an office 5. Identify the merits and demerits in centralized and decentralized correspondence and qualities of a good office report
CORPORATE SOCIAL RESPONSIBILITY	15UNM21	<p>After studying the following units of this subject, the student will be able</p> <ol style="list-style-type: none"> 1. Understand the concept of corporate

		<p>social responsibilities.</p> <ol style="list-style-type: none"> 2. Understand the role of board of directors. 3. Understand the CSR policy. 4. Understand the different types of expenditure on CSR activities. 5. Gain the skill of preparing CSR reports.
SKILLS FOR PERSONAL SELLING	15USB22	<p>After studying the following units of this subject, the student will be able</p> <ol style="list-style-type: none"> 1. Understand the process of personal selling 2. Understand the essential qualities of ideal Salesmen 3. Understand the different methods sales presentation 4. Understand the different factors governing personal selling 5. Understand the strategies to attend the sales calls

<p style="text-align: center;">BUSINESS ORGANIZATION AND MANAGEMENT</p>	<p style="text-align: center;">15UCP31</p>	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept of business, its objectives and elements 2. Gain knowledge on the different forms of business organisation and their merits and demerits 3. Understand the nature and significance of management 4. Understand the importance of planning and organising functions 5. Gain knowledge on the various functions involved in finding and placing the right human resources and achieving their unified performance towards organisational goals
<p style="text-align: center;">COMPANY LAW</p>	<p style="text-align: center;">15UCP32</p>	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept of and characteristics s company 2. Gain knowledge about the process of incorporation of a company and the documents associated therewith 3. Gain knowledge about prospectus and its types and about

		<p>membership in a company</p> <ol style="list-style-type: none"> 4. Understand the sources of raising capital and the powers and guidelines associated with borrowing 5. Gain knowledge on the registers, forms and returns of a joint stock company.
OFFICE AUTOMATION	15UCP33	<p>After studying the following units of this subject, the student will be able</p> <ol style="list-style-type: none"> 1. Understand the procedure for creating and editing the document 2. Acquire the skill and knowledge to work with MS excel 3. Gain the skill of creating, formatting and printing charts 4. Acquire the skill and knowledge to work with MS PPT 5. Acquire the skill and knowledge to work with MS Access
BUSINESS STATISTICS	15UCPA31	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Gain conceptual understating on statistics and methods of collection

		<p>and presentation of data</p> <ol style="list-style-type: none"> 2. Understand and apply the statistical tools for measuring the central tendency 3. Gain the ability to apply correlation and Regression analysis on variables 4. Understand and apply the methods of interpolation and extrapolation and association of attributes 5. Understand and apply the different methods of Time Series Analysis
<p style="text-align: center;">STAKEHOLDERS AND GOVERNANCE</p>	<p style="text-align: center;">15USB32</p>	<p>After studying the following units of this subject, the student will be able</p> <ol style="list-style-type: none"> 1. Understand clearly the concept of stakeholders. 2. Understand the different types of stakeholders. 3. Understand the rights of shareholders. 4. Understand the concept of institutional investors. 5. Understand the governing issues of board.

<p style="text-align: center;">FINANCIAL SERVICE AND STOCK MARKETS</p>	<p style="text-align: center;">15UCP41</p>	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept and types of financial services 2. Gain knowledge about the various instruments available in stock market transactions and their features 3. Comprehend the banking system in India and the functions of RBI 4. Gain knowledge about the various financial services offered by banking and financial institutions in India 5. Gain conceptual understanding on mutual funds and credit rating system 	
<p style="text-align: center;">CORPORATE ACCOUNTING</p>	<p style="text-align: center;">15UCP42</p>	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Gain knowledge on the accounting entries related with issue of capital market instruments i.e., shares and debentures 2. Gain knowledge on accounting entries related with redemption of shares and debentures 3. Gain the knowledge and the ability of preparing the final 	

		<p>accounts of joint stock companies</p> <ol style="list-style-type: none"> 4. Understand and apply the different methods of valuation of goodwill and shares 5. Gain the ability of preparing accounts for liquidation process of joint stock companies 	
BUSINESS ENVIRONMENT	15UCP43	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Comprehend the concept and types of Business Environment 2. Identify and analyses the various internal environmental factors influencing a business enterprise 3. Gain knowledge on the external environmental factors influencing business enterprise 4. Understand the recent developments in the economy that influence the functional setting in a business enterprise 5. Analyse the various environmental factors that influence the functioning of business enterprise 	
COMMERCIAL AND INDUSTRIAL LAW	15UCPA41	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Acquire knowledge about the 	

		<p>important provisions of Factories Act regarding the welfare of its workers</p> <ol style="list-style-type: none"> 2. Gain knowledge about the legal provisions regarding the minimum wages for workers in India 3. Gain knowledge about the different aspects of and settlement mechanisms for industrial disputes 4. Acquire knowledge about the obligations and responsibilities of employees with regards to the compensation payment to the employees 5. Get conceptual understanding on labour audit and its methodology
BANKING AND FINANCE	15USPE41	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept and types of Banking and the relationship between banker and a customer 2. Gain knowledge about the various instruments used in Banking transactions and their features 3. Comprehend the banking

		<p>system in India and the functions of RBI</p> <ol style="list-style-type: none"> 4. Gain knowledge about the various financial services offered by banking and financial institutions in India 5. Gain conceptual understanding on mutual funds and credit rating system
ELEMENTS OF INSURANCE	15USB41	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept and importance of insurance 2. Differentiate between the types of policies and calculation of premium 3. Understand the concept of marine insurance and calculation of premium 4. Gain knowledge on different fire insurance policies and calculation of claims 5. Gain knowledge the important provisions of IRDA Act 1999
CORPORATE SECRETARIAL PRACTICE	15UCP51	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Comprehend the qualifications

		<p>and legal status of a company secretary in a company</p> <ol style="list-style-type: none"> 2. Understand the role of a company secretary with regards to the Board meetings of a company 3. Understand the role of a company secretary with regards to the annual general meetings of a company 4. Gain knowledge on the legal provisions and procedures for company meetings 5. Gain knowledge on the secretarial standards issued by the ICSI
COST ACCOUNTING	15UCP52	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concepts of cost and cost accounting 2. Understand and apply the different methods of material costing and techniques of material cost control 3. Gain the knowledge of different systems of calculation of wages and ability of computing labour cost 4. Understand and apply the methods of computation of cost for job orders and contract 5. Gain knowledge and skill of

		preparing process cost accounts
SUMMER INTENSHIP – FIELD VISIT	15UCP53	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the different process of production in firm 2. Understand the different working environment of a firm 3. Gain the skill of administrating a business 4. Understand the rules and regulations relating to labour 5. Gain the confidence to work in different companies
INCOME TAX	15UCP54	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Gain conceptual understating on Capital gain and provisions regarding its computation 2. Gain knowledge on calculation of Income from other sources 3. Gain knowledge on the provisions regarding clubbing of income

		<ol style="list-style-type: none"> 4. Gain knowledge on calculation of total income and deductions for individuals 5. Understand the jurisdiction of income tax authorities and the system of making appeals
AUDITING	15UCP55	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the principles and procedures of auditing 2. Gain knowledge on the concept and process of internal check system 3. Understand the concept and the procedures for vouching 4. Gain knowledge on the different methods of verification and valuation of assets and liabilities 5. Comprehend the legal status of a company auditor and the contents of an audit report
MARKETING MANAGEMENT	15UCPE51	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept of marketing 2. Understand the product classification 3. Understand the different method of

		<p>pricing</p> <ol style="list-style-type: none"> 4. Understand the channels of distribution debut 5. Gain knowledge about sales promotion
MANAGEMENT ACCOUNTING	15UCP61	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept of management accounting and tools and techniques of financial statement analysis 2. Gain knowledge and ability to analyze the financial statements with the help of ratios and cash flow and fund flow analysis 3. Gain understanding on the concepts and applications of marginal costing 4. Understand the concept and types of budgets and the system of budgetary control in a business organisation 5. Understand the concept of standard costing and gain the ability of analysing the variances between the standards and actual costs
CORPORATE GOVERNANCE	15UCP62	<p>After studying the following units of this subject, the student will be able to</p>

		<ol style="list-style-type: none"> 1. Gain conceptual understanding on corporate governance and its elements 2. Comprehend the legislative framework of Corporate governance in India 3. Understand the role of Board of Directors in ensuring corporate Governance 4. Understand the corporate governance relating to the various stakeholders 5. Understand the importance of Corporate Social Responsibility and corporate sustainability initiatives of a company
INDIRECT TAX	15UCP63	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept and modes of GST and definitions under GST Act 2. Understand the concept of Supply and its dimensions under GST Act 3. Gain understanding on the provisions of the GST Act about Input Tax credit 4. Gain knowledge on important provisions of Integrated GST Act 5. Understand the system of valuing

		and levying customs duty
HUMAN RESOURCE AND MANAGEMENT	15UCP64	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept of human resource management and its various perspectives. 2. Understand the process of job analysis and recruitment of the right person for the right job 3. Gain knowledge on the procedure and methods of evaluating a job and training the employees 4. Understand the different types of leadership and theories of motivating the employees 5. Gain the knowledge of different employee' performance appraisal methods
ACCOUNTING PACKAGE TALLY	15UCPE61	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Gain the skill of company creation 2. Gain the skill of creating the vouchers in tally 3. Gain the skill of updating the stock items in tally

		<ol style="list-style-type: none"> 4. Gain the knowledge to prepare trial balance, balance sheet and profit and loss account 5. Understand the skill of import and export the data
FINANCIAL ACCOUNTING – I	12UCP11	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the basic principles and system of accounting 2. Prepare the final accounts of a business enterprise 3. Apply the different methods of depreciation accounting 4. Prepare accounts from incomplete records under single entry system 5. Understand the important accounting standards
BUSSINESS COMMUNICATION	12UCPA11	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the importance and essentials of a good communication system in a business organisation 2. Gain the ability of drafting letters for different situations of business

		<ol style="list-style-type: none"> 3. Gain knowledge about inter departmental communication and its kinds in organisations 4. Gain knowledge on application of recent technological development in business communication 5. Understand the significance of public relations in business and the different ways of achieving it
CORPORATE CONCEPT	12UNM11	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the component of business and industries 2. Understand how to lead a company 3. Understand the role of share holders and stake holders 4. Understand the equity and preferences share capital 5. Understand the procedure for long term borrowings 6. Understand the reason trends in corporate sector

<p>FINANCIAL ACCOUNTING - II</p>	<p>12UCP21</p>	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the basic principles and system of accounting 2. Prepare the final accounts of a business enterprise 3. Apply the different methods of depreciation accounting 4. Prepare accounts from incomplete records under single entry system 5. Understand the important accounting standards
<p>OFFICE MANAGEMENT</p>	<p>12UCPA21</p>	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the various functions and importance of an office 2. Visualize the layout and environment of a good office 3. Understand the concept and importance of Office system and procedure 4. Gain knowledge on different aspects of records management in an office 5. Identify the merits and

		demerits in centralized and decentralized correspondence and qualities of a good office report
COMMUNICATION SKILL	12UNM21	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the importance and essentials of a good communication system in a business organisation 2. Gain the ability of drafting letters for different situations of business 3. Gain knowledge about inter departmental communication and its kinds in organisations 4. Gain knowledge on application of recent technological development in business communication 5. Understand the significance of communication skill in business and the different ways of achieving it
SKILLS FOR PERSONAL SELLING	12USB22	<p>After studying the following units of this subject, the student will be able</p> <ol style="list-style-type: none"> 1. Understand the process of personal selling

		<ol style="list-style-type: none"> 2. Understand the essential qualities of ideal Salesmen 3. Understand the different methods sales presentation 4. Understand the different factors governing personal selling 5. Understand the strategies to attend the sales calls
<p>BUSINESS ORGANISATION AND MANAGEMENT</p>	<p>12UCP31</p>	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept of business, its objectives and elements 2. Gain knowledge on the different forms of business organisation and their merits and demerits 3. Understand the nature and significance of management 4. Understand the importance of planning and organising functions 5. Gain knowledge on the various functions involved in finding and placing the right human resources and achieving their unified

		performance towards organisational goals
COMPANY LAW	12UCP32	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept of and characteristics s company 2. Gain knowledge about the process of incorporation of a company and the documents associated therewith 3. Gain knowledge about prospectus and its types and about membership in a company 4. Understand the sources of raising capital and the powers and guidelines associated with borrowing 5. Gain knowledge on the registers, forms and returns of a joint stock company.
OFFICE AUTOMATION	12USP33	<p>After studying the following units of this subject, the student will be able</p> <ol style="list-style-type: none"> 1. Understand the procedure for creating and editing the document 2. Acquire the skill and knowledge to work with MS excel 3. Gain the skill of creating, formatting

		<p>and printing charts</p> <ol style="list-style-type: none"> 4. Acquire the skill and knowledge to work with MS PPT 5. Acquire the skill and knowledge to work with MS Access
BUSINESS STATISTICS	12UCPA31	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Gain conceptual understating on statistics and methods of collection and presentation of data 2. Understand and apply the statistical tools for measuring the central tendency 3. Gain the ability to apply correlation and Regression analysis on variables 4. Understand and apply the methods of interpolation and extrapolation and association of attributes 5. Understand and apply the different methods of Time Series Analysis
PRATICAL BANKING	12USB32	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept and types of Banking and the relationship between banker

		<p>and a customer</p> <ol style="list-style-type: none"> 2. Gain knowledge about the various instruments used in Banking transactions and their features 3. Comprehend the banking system in India and the functions of RBI 4. Gain the knowledge about E-Banking 5. Understand the basic concept of Internet Banking
COMPANY ADMINISTRATIONS	12UCP41	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Gain knowledge on the management structure of a company and the position of a director in a company 2. Understand the legal provisions regarding convening company meetings 3. Gain knowledge on the rules and provisions for declaring dividend 4. Understand the legal provisions regarding making investments and granting loans by a company 5. Understand the procedure for winding up of a joint stock

		company
CORPORATE ACCOUNTING	12UCP42	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Gain knowledge on the accounting entries related with issue of capital market instruments i.e., shares and debentures 2. Gain knowledge on accounting entries related with redemption of shares and debentures 3. Gain the knowledge and the ability of preparing the final accounts of joint stock companies 4. Understand and apply the different methods of valuation of goodwill and shares 5. Gain the ability of preparing accounts for liquidation process of joint stock companies
BUSSINESS ENVIRONMENT	12UCP43	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Comprehend the concept and types of Business Environment 2. Identify and analyses the various internal environmental factors

		<p>influencing a business enterprise</p> <ol style="list-style-type: none"> 3. Gain knowledge on the external environmental factors influencing business enterprise 4. Understand the recent developments in the economy that influence the functional setting in a business enterprise 5. Analyse the various environmental factors that influence the functioning of business enterprise
<p>COMMERCIAL AND INDUSTRIAL LAW</p>	<p>12UCPA41</p>	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Acquire knowledge about the important provisions of Factories Act regarding the welfare of its workers 2. Gain knowledge about the legal provisions regarding the minimum wages for workers in India 3. Gain knowledge about the different aspects of and settlement mechanisms for industrial disputes 4. Acquire knowledge about the obligations and responsibilities of employees with regards to the compensation payment to the employees 5. Get conceptual understanding on

		labour audit and its methodology
BANKING AND FINANCE SERVICES	12USPE41	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept and types of Banking and the relationship between banker and a customer 2. Gain knowledge about the various instruments used in Banking transactions and their features 3. Comprehend the banking system in India and the functions of RBI 4. Gain knowledge about the various financial services offered by banking and financial institutions in India 5. Gain conceptual understanding on mutual funds and credit rating system
ELEMENT OF INSURANCE	12USB41	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept and importance of insurance 2. Differentiate between the types of policies and

		<ul style="list-style-type: none"> calculation of premium 3. Understand the concept of marine insurance and calculation of premium 4. Gain knowledge on different fire insurance policies and calculation of claims 5. Gain knowledge the important provisions of IRDA Act 1999
CORPORATE SECRETARIAL PRACTICE	12UCP51	<p>After studying the following units of this subject, the student will be able to</p> <ul style="list-style-type: none"> 1. Comprehend the qualifications and legal status of a company secretary in a company 2. Understand the role of a company secretary with regards to the Board meetings of a company 3. Understand the role of a company secretary with regards to the annual general meetings of a company 4. Gain knowledge on the legal provisions and procedures for company meetings 5. Gain knowledge on the secretarial standards issued by the ICSI

COST ACCOUNTING	12UCP52	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concepts of cost and cost accounting 2. Understand and apply the different methods of material costing and techniques of material cost control 3. Gain the knowledge of different systems of calculation of wages and ability of computing labour cost 4. Understand and apply the methods of computation of cost for job orders and contract 5. Gain knowledge and skill of preparing process cost accounts
CORPORATE RESTRUCTURING	12UCP53	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept of corporate restructuring 2. Understand the concept of merger and acquisition 3. Understand the procedures of merger

		<p>and acquisition</p> <ol style="list-style-type: none"> 4. Gain knowledge about the valuation of a firm 5. Understand the procedure of takeover
INCOME TAX	12UCP54	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Gain conceptual understating on Capital gain and provisions regarding its computation 2. Gain knowledge on calculation of Income from other sources 3. Gain knowledge on the provisions regarding clubbing of income 4. Gain knowledge on calculation of total income and deductions for individuals 5. Understand the jurisdiction of income tax authorities and the system of making appeals
AUDITING	12UCP55	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the principles and procedures of auditing 2. Gain knowledge on the

		<p>concept and process of internal check system</p> <ol style="list-style-type: none"> 3. Understand the concept and the procedures for vouching 4. Gain knowledge on the different methods of verification and valuation of assets and liabilities 5. Comprehend the legal status of a company auditor and the contents of an audit report
ACCOUNTING PACKAGE TALLY	12UCPE51	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Gain the skill of company creation 2. Gain the skill of creating the vouchers in tally 3. Gain the skill of updating the stock items in tally 4. Gain the knowledge to prepare trial balance, balance sheet and profit and loss account 5. Understand the skill of import and export the data
MANAGEMENT ACCOUNTING	12UCP61	After studying the following units of this

		<p>subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept of management accounting and tools and techniques of financial statement analysis 2. Gain knowledge and ability to analyse the financial statements with the help of ratios and cash flow and fund flow analysis 3. Gain understanding on the concepts and applications of marginal costing 4. Understand the concept and types of budgets and the system of budgetary control in a business organisation 5. Understand the concept of standard costing and gain the ability of analysing the variances between the standards and actual costs
CORPORATE GOVERNANCE	12UCP62	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Gain conceptual understanding on corporate governance and its elements 2. Comprehend the legislative framework of Corporate governance in India

		<ol style="list-style-type: none"> 3. Understand the role of Board of Directors in ensuring corporate Governance 4. Understand the corporate governance relating to the various stakeholders 5. Understand the importance of Corporate Social Responsibility and corporate sustainability initiatives of a company
INDIRECT TAXES	12UCP63	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept and modes of GST and definitions under GST Act 2. Understand the concept of Supply and its dimensions under GST Act 3. Gain understanding on the provisions of the GST Act about Input Tax credit 4. Gain knowledge on important provisions of Integrated GST Act 5. Understand the system of valuing and levying customs duty

<p>INSTITUTIONAL TRAINING</p>	<p>12UCP64</p>	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the different process of production in firm 2. Understand the different working environment of a firm 3. Gain the skill of administrating a business 4. Understand the rules and regulations relating to labour 5. Gain the confidence to work in different companies
<p>HUMAN RESOURCE MANAGEMENT</p>	<p>12UCPE61</p>	<p>After studying the following units of this subject, the student will be able to</p> <ol style="list-style-type: none"> 1. Understand the concept of human resource management and its various perspectives. 2. Understand the process of job analysis and recruitment of the right person for the right job 3. Gain knowledge on the procedure and methods of evaluating a job and training the employees

		<ol style="list-style-type: none">4. Understand the different types of leadership and theories of motivating the employees5. Gain the knowledge of different employee' performance appraisal methods
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Program Specific Outcomes (PSO)

PSO1 (B.Sc., Botany)

- The students who graduate in the field of botany will have a greater understanding of the plant kingdom in terms of its general characteristics, morphology, anatomy, developmental process of various tissues and organs, classification, life cycle, economic importance, evolutionary relationship, ecology, biochemistry, physiology, plant tissue culture, and recombinant DNA technology.

PSO2 (M.Sc., Botany)

- Post graduate students in the field of botany will have an in-depth knowledge on various aspects of the plant kingdom as mentioned in PSO1 so that they orient their research career in any specific area of plant kingdom. In addition, PG students will gain hands-on-experience to perform experiments and handle analytical instruments in relation to the application of botanical studies in food, agriculture, medicine, industry and environment.

PSO3 (M.Phil. Botany)

- The M.Phil. Scholars will be guided to identify a research problem in diverse areas of plant sciences, devise a work plan and methodology to conduct scientific research projects, critically analyze and interpret the results, and communicate the results through dissertations and research publications.

PSO4 (Ph.D. Botany)

- The Ph.D. Scholars will understand the needfulness of research for the development of science and the welfare of the human race, gain hands-on experience of various techniques involved in conducting scientific research, learn to communicate the scientific results through research publications, news articles, magazines, books, documentaries and work forward for the lab-to-land transition of scientific research.

B.Sc., Botany (2018-19)

Name of the course	Course Code	Course Outcome
Plant Diversity I	18UBOT11	<ul style="list-style-type: none">• The students will gain knowledge on the diversity of cryptogams in Tamil Nadu.• The student would understand the relations between plants and their evolution
Plant Diversity I	18UBOP12	<ul style="list-style-type: none">• The students will gain an understanding of the diversity of lower groups of plants• The students will understand the relations between plants and their evolution• The students will gain knowledge on the diversity of cryptogams in Tamil Nadu.
Food & Nutrition	18UNM11	<ul style="list-style-type: none">• The students will gain an understanding about the relation

		<p>between food and nutrition</p> <ul style="list-style-type: none"> • The students will gain interest in the art of maintaining good health
Plant Diversity II	18UBOT21	<ul style="list-style-type: none"> • The students will understand the diversity, life cycle patterns, major evolutionary trends and fossilization process of Pteridophytes and Gymnosperms.
Plant Diversity II	18UBOP22	<ul style="list-style-type: none"> • The students will understand the diversity, life cycle patterns, major evolutionary trends and fossilization process of Pteridophytes and Gymnosperms.
Horticulture	18USB22	<ul style="list-style-type: none"> • The students will learn the techniques of propagation of horticultural plants. • The students will understand the principles and practices in cultivation of vegetables, fruits and flowers.
Gardening and Landscaping	18UNM22	<ul style="list-style-type: none"> • The students will learn the techniques of propagation of ornamental plants. • The students will understand the principles and practices in cultivation of ornamental garden making
Anatomy & Embryology	18UBOT31	<ul style="list-style-type: none"> • The students will acquire in

		<p>depth knowledge of various kinds and organization of plant tissues.</p> <ul style="list-style-type: none"> • The students will understand the developmental aspects of plant structures and the principles in the origin of form in plants. • The students will uncover the role of symmetry and polarity in the overall body organization of the organism
Anatomy & embryology	18UBOP32	<ul style="list-style-type: none"> • The students will acquire in depth knowledge of various kinds and organization of plant tissues. • The students will understand the developmental aspects of plant structures and the principles in the origin of form in plants. • The students will uncover the role of symmetry and polarity in the overall body organization of the organism
Plant Diversity	18UBOTA31	<ul style="list-style-type: none"> • The students will gain an understanding of the diversity of lower groups of plants • The students will understand the relations between plants and their evolution • The students will gain knowledge on the diversity of

		cryptogams in Tamil Nadu.
Plant Diversity	18UBOPA32	<ul style="list-style-type: none"> • The students will gain an understanding of the diversity of lower groups of plants • The students will understand the relations between plants and their evolution • The students will gain knowledge on the diversity of cryptogams in Tamil Nadu.
Herbal Botany	18USB32	<ul style="list-style-type: none"> • The students will have a preliminary knowledge about various economically important local herbs • The students will understand the importance of traditional foods and medicines
Taxonomy of Angiosperms	18UBOT41	<ul style="list-style-type: none"> • The students will understand the principles of biosystematics, classification and nomenclature of plants • The students will know the modern trends in Plant Taxonomy • The students will understand the role of Herbarium, use of Floras and Monographs
Taxonomy of Angiosperms	18UBOP42	<ul style="list-style-type: none"> • The students will understand the principles of biosystematics, classification and nomenclature of plants

		<ul style="list-style-type: none"> • The students will know the modern trends in Plant Taxonomy • The students will understand the role of Herbarium, use of Floras and Monographs
Taxonomy of Angiosperms and Plant Physiology	18UBOTA41	<ul style="list-style-type: none"> • The students will understand the principles of biosystematics, classification and nomenclature of plants • The students will know the modern trends in Plant Taxonomy • The students will understand the role of Herbarium, use of Floras and Monographs
Taxonomy of Angiosperms and Plant Physiology	18UBOPA42	<ul style="list-style-type: none"> • The students will understand the principles of biosystematics, classification and nomenclature of plants • The students will know the modern trends in Plant Taxonomy • The students will understand the role of Herbarium, use of Floras and Monographs • The students will learn the major principles of plant physiology with the focus links between structure and function. • The students will understand the

		<p>key concepts involved in understanding crucial processes (e.g. water and nutrient transport, photosynthate production and transport, growth and development. Key regulatory hormones)</p> <ul style="list-style-type: none"> • The students will discern the reasons for differences in metabolic rates based on structure, function or developmental stage of the plant.
Plant Breeding	18UBOTE41	<ul style="list-style-type: none"> • The students will understand the principles and practices in the cultivation of vegetables, fruits and flowers. • The students will be familiar with the intellectual property rights and patenting
Floriculture	18UBOTE41	<ul style="list-style-type: none"> • The students will know about the various types of flowers cultivated in India • The students will know about the various cultivation procedures for the different flowers • The students will learn about the various marketing avenues for flowers
Ecotourism	18USB42	<ul style="list-style-type: none"> • The students will develop an understanding of the basic concepts of tourism planning for

		<p>public and private sector community and regional ecotourism and nature tourism development.</p> <ul style="list-style-type: none"> • The students will have varying perspectives on tourism and ecotourism policy. • The students will undertake the management of ecotourism products and regions.
Biochemistry & Biophysics	18UBOT51	<ul style="list-style-type: none"> • The students will know about various biomolecules that make up the body of a living organism and their molecular interaction mechanisms
Cell Biology, Genetics & Evolution	18UBOT52	<ul style="list-style-type: none"> • The students will understand the importance of cells, cell organelles and how they work in tandem with one another. • The students will study the role of genetics in the life of living organisms and the role of evolution in the origin of different forms of life
Ecology	18UBOT53	<ul style="list-style-type: none"> • The students will know how the abiotic factors and biotic factors interact • The students will learn the importance of ecology and ecosystems for the survival of the biosphere

		<ul style="list-style-type: none"> • The students will realize the harmful effects of population explosion and pollution.
Microbiology & Plant Pathology	18UBOT54	<ul style="list-style-type: none"> • The students will understand the importance of microbes in our lives and the ecosystem • The students will study about the diseases caused by microbes and their treatment methods
Biochemistry & Biophysics	18UBOP55	<ul style="list-style-type: none"> • The students will know about various biomolecules that make up the body of a living organism and their molecular interaction mechanisms
Cell Biology, Genetics & Evolution	18UBOP56	<ul style="list-style-type: none"> • The students will understand the importance of cells, cell organelles and how they work in tandem with one another. • The students will study the role of genetics in the life of living organisms and the role of evolution in the origin of different forms of life
Ecology	18UBOP57	<ul style="list-style-type: none"> • The students will know how the abiotic factors and biotic factors interact • The students will learn the importance of ecology and ecosystems for the survival of the biosphere • The students will realize the

		harmful effects of population explosion and pollution.
Microbiology & Plant Pathology	18UBOP58	<ul style="list-style-type: none"> • The students will understand the importance of microbes in our lives and the ecosystem • The students will study about the diseases caused by microbes and their treatment methods
Biological Techniques	18UBOTE59	<ul style="list-style-type: none"> • The students will learn the different biological techniques needed in a biological lab • The students will apply the relevant techniques for their project work
Forestry	18UBOTE59	<ul style="list-style-type: none"> • The students will know the basics of forest biology and ecology. • The students will understand the significance and conservation of forest resources • The students will grasp contemporary issues in forestry, both domestically and internationally. • The students will appear in Indian Forestry Service exam by familiarizing with basics of forestry
Plant Physiology	18UBOT61	<ul style="list-style-type: none"> • The students will learn the major principles of plant physiology with the focus links between

		<p>structure and function.</p> <ul style="list-style-type: none"> • The students will understand the key concepts involved in understanding crucial processes (e.g. water and nutrient transport, photosynthate production and transport, growth and development. Key regulatory hormones) • The students will discern the reasons for differences in metabolic rates based on structure, function or developmental stage of the plant.
Molecular Biology & Genetic Engineering	18UBOT62	<ul style="list-style-type: none"> • The students will enhance the knowledge of biology at molecular level and learn the laboratory skills that form the foundation for major, modern scientific breakthroughs that influence society. • The students will equip the students with adequate knowledge they need to know regarding vital biomolecules and their interactions to enter the pharmaceutical industry or academic research with confidence
Plant Biotechnology	18UBOT63	<ul style="list-style-type: none"> • The students will understand the

		<p>methods in biotechnology and also to apply the concepts of genetic engineering for animal wellbeing.</p> <ul style="list-style-type: none"> • The students will have an in depth knowledge of the advanced areas of plant biotechnology.
Plant Physiology	18UBOP64	<ul style="list-style-type: none"> • The students will learn the major principles of plant physiology with the focus links between structure and function. • The students will understand the key concepts involved in understanding crucial processes (e.g. water and nutrient transport, photosynthate production and transport, growth and development. Key regulatory hormones) • The students will discern the reasons for differences in metabolic rates based on structure, function or developmental stage of the plant.
Molecular Biology , Genetic engineering& Plant Biotechnology	18UBOP65	<ul style="list-style-type: none"> • The students will enhance the knowledge of biology at molecular level and learn the laboratory skills that form the foundation for major, modern

		<p>scientific breakthroughs that influence society.</p> <ul style="list-style-type: none"> • The students will equip the students with adequate knowledge they need to know regarding vital biomolecules and their interactions to enter the pharmaceutical industry or academic research with confidence • The students will understand the methods in biotechnology and also to apply the concepts of genetic engineering for animal wellbeing. • The students will have an in depth knowledge of the advanced areas of plant biotechnology.
Biostatistics & Bioinformatics	18UBOT66	<ul style="list-style-type: none"> • The students will learn the importance of computational methods in biology • The students will acquire knowledge about the database and the Biomolecules • The students will apply the statistical methods in biological studies
Agricultural Botany	18UBOT66	<ul style="list-style-type: none"> • The students will demonstrate an understanding of crops and their cultivation practices

		<ul style="list-style-type: none"> • The students will learn the various aspects of crop cultivation
Entrepreneurship Botany	18UBOTECC1	<ul style="list-style-type: none"> • Students would be motivated to start a business with botanical materials • The student will understand that there are business opportunities in botany
Introduction to Microscopy	18UBOTECC2	<ul style="list-style-type: none"> • An Introduction to Microscopy helps students master the foundational principles of microscopy. • Understanding the fundamentals of microscopy provides students with a relevant and marketable skill that can be readily applied in many fields.
Mushroom Technology	18UBOTECC3	<ul style="list-style-type: none"> • Students will know about the cultivation of edible mushrooms • Students will have knowledge about marketing of the mushrooms
Project	18UBOTECC4	<ul style="list-style-type: none"> • The students will understand the importance of research for the development of science and the welfare of the human race • The students will have hands on experience of the various

		methods of doing scientific research
Botany for Competitive examinations	18UBOTECC5	<ul style="list-style-type: none"> • The student will be empowered to face the competitive examinations. • The student will have the capacity to prepare multiple choice questions and other type of questions to prepare for various examinations
Renewable Energy Resources	18UBOTECC6	<ul style="list-style-type: none"> • The student will have an understanding and appreciation of renewable energy resources. • List and generally explain the main sources of renewable energy and their primary applications • List and describe the primary renewable energy resources and technologies. • Collect and organize information on renewable energy technologies as a basis for further analysis and evaluation.

M.Sc., Botany (2018-19)

Name of the course	Course Code	Course Outcome
Plant Diversity I	18PBOTC11	<ul style="list-style-type: none"> • The students will gain knowledge on the diversity of cryptogams in Tamil Nadu.

		<ul style="list-style-type: none"> • The student would understand the relations between plants and their evolution
Cell Biology & Genetics	18PBOTC12	<ul style="list-style-type: none"> • The students will understand the importance of cells, cell organelles and how they work in tandem with one another. • The students will study the role of genetics in the life of living organisms and the role of evolution in the origin of different forms of life
Anatomy, embryology & Morphogenesis	18PBOTC13	<ul style="list-style-type: none"> • The students will acquire in depth knowledge of various kinds and organization of plant tissues. • The students will understand the developmental aspects of plant structures and the principles in the origin of form in plants. • The students will uncover the role of symmetry and polarity in the overall body organization of the organism
Plant Tissue Culture	18PBOTE14	<ul style="list-style-type: none"> • The students will acquire skill based training in Plant Tissue Culture Techniques. • The students will be enlightened on the application of tissue culture in crop improvement, biodiversity conservation, and pharma industry.
Biodiversity Conservation	18PBOTE14	<ul style="list-style-type: none"> • The students will gain an

		<p>understanding of the biodiversity in Tamil Nadu, in India and the world.</p> <ul style="list-style-type: none">• The students will ingrain the importance of conserving biodiversity in the students.
Plant Diversity I	18PBOP15	<ul style="list-style-type: none">• The students will gain knowledge on the diversity of cryptogams in Tamil Nadu.• The student would understand the relations between plants and their evolution

<p>Cell Biology & Genetics and Anatomy, embryology& Morphogenesis</p>	<p>18PBOP16</p>	<ul style="list-style-type: none">• The students will understand the importance of cells, cell organelles and how they work in tandem with one another.• The students will study the role of genetics in the life of living organisms and the role of evolution in the origin of different forms of life• The students will acquire in depth knowledge of various kinds and organization of plant tissues.• The students will understand the developmental aspects of plant structures and the principles in the origin of form in plants.• The students will uncover the role of symmetry and polarity in the overall body organization of the organism
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Ecology and Phytogeography	18PBOTC21	<ul style="list-style-type: none"> • The students will know how the abiotic factors and biotic factors interact • The students will learn the importance of ecology and ecosystems for the survival of the biosphere • The students will realize the harmful effects of population explosion and pollution.
Plant Diversity II	18PBOTC22	<ul style="list-style-type: none"> • The students will understand the diversity, life cycle patterns, major evolutionary trends and fossilization process of Pteridophytes and Gymnosperms.
Molecular Biology & Genetic Engineering	18PBOTC23	<ul style="list-style-type: none"> • The students will enhance the knowledge of biology at molecular level and learn the laboratory skills that form the foundation for major, modern scientific breakthroughs that influence society. • The students will equip the students with adequate knowledge they need to know regarding vital biomolecules and their interactions to enter the pharmaceutical industry or academic research with confidence
Research Techniques	18PBOTE24	<ul style="list-style-type: none"> • The students will understand the importance of research for the development of science and the welfare of the human race

		<ul style="list-style-type: none"> • The students will have hands on experience of the various methods of doing scientific research
Organic Farming	18PBOTE24	<ul style="list-style-type: none"> • The students will know about organic methods of food production • The students will learn and understand the different challenges that arise in organic farming
Ecology and Phytogeography	18PBOP25	<ul style="list-style-type: none"> • The students will know how the abiotic factors and biotic factors interact • The students will learn the importance of ecology and ecosystems for the survival of the biosphere • The students will realize the harmful effects of population explosion and pollution.

<p>Plant Diversity II and Molecular Biology & Genetic Engineering</p>	<p>18PBOP26</p>	<ul style="list-style-type: none">• The students will understand the diversity, life cycle patterns, major evolutionary trends and fossilization process of Pteridophytes and Gymnosperms.• The students will enhance the knowledge of biology at molecular level and learn the laboratory skills that form the foundation for major, modern scientific breakthroughs that influence society.• The students will equip the students with adequate knowledge they need to know regarding vital biomolecules and their interactions to enter the pharmaceutical industry or academic research with confidence
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Plant and Animal Biotechnology (Interdisciplinary)	18PBOTC31	<ul style="list-style-type: none"> • The students should understand the methods in biotechnology and also to apply the concepts of genetic engineering for animal wellbeing. • The students will have a depth knowledge of the specialized areas of plant biotechnology.
Biostatistics and Bioinformatics	18PBOTC32	<ul style="list-style-type: none"> • The students will apply the statistical methods in biological studies • The students will learn the importance of computational methods in biology • The students will acquire knowledge about the database and the Biomolecules
Plant Physiology and Biochemistry	18PBOTC33	<ul style="list-style-type: none"> • The students will learn the major principles of plant physiology with the focus links between structure and function. • The students will understand the key concepts involved in understanding crucial processes (e.g. water and nutrient transport, photosynthate production and transport, growth and development. Key regulatory hormones) • The students will discern the reasons for differences in

		<p>metabolic rates based on structure, function or developmental stage of the plant.</p> <ul style="list-style-type: none"> • The students will know about various biomolecules that make up the body of a living organism and their molecular interaction mechanisms
Plant Breeding and Horticulture	18PBOTE35	<ul style="list-style-type: none"> • The students will understand the principles and practices in the cultivation of vegetables, fruits and flowers. • The students will be familiar with the intellectual property rights and patenting • The students will learn the techniques of propagation of horticultural plants. • The students will understand the principles and practices in cultivation of vegetables, fruits and flowers.
Industrial Microbiology	18PBOTE34	<ul style="list-style-type: none"> • A knowledge of the application of microbiology on an industrial scale for the welfare of mankind will be gained • A knowledge of the various methods and processes to make different products using microorganisms will be gained

<p>Plant and Animal Biotechnology (Interdisciplinary) & Biostatistics and Bioinformatics</p>	<p>18PBOP35</p>	<ul style="list-style-type: none"> • The students should understand the methods in biotechnology and also to apply the concepts of genetic engineering for animal wellbeing. • The students will have depth knowledge of the specialized areas of plant biotechnology. • The students will apply the statistical methods in biological studies • The students will learn the importance of computational methods in biology • The students will acquire knowledge about the database and the Biomolecules
<p>Plant Physiology and Biochemistry</p>	<p>18PBOP36</p>	<ul style="list-style-type: none"> • The students will learn the major principles of plant physiology with the focus links between structure and function. • The students will understand the

		<p>key concepts involved in understanding crucial processes (e.g. water and nutrient transport, photosynthate production and transport, growth and development. Key regulatory hormones)</p> <ul style="list-style-type: none"> • The students will discern the reasons for differences in metabolic rates based on structure, function or developmental stage of the plant. • The students will know about various biomolecules that make up the body of a living organism and their molecular interaction mechanisms
Taxonomy of Angiosperms	18PBOTC41	<ul style="list-style-type: none"> • The students will understand the principles of biosystematics, classification and nomenclature of plants • The students will know the modern trends in Plant Taxonomy • The students will understand the role of Herbarium, use of Floras and Monographs
Microbiology & Plant Pathology	18PBOTC42	<ul style="list-style-type: none"> • The students will understand the importance of microbes in our lives and the ecosystem • The students will study about the diseases caused by microbes and

		their treatment methods
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<p>Taxonomy of Angiosperms and Microbiology & Plant Pathology</p>	<p>18PBOP44</p>	<ul style="list-style-type: none">• The students will understand the principles of biosystematics, classification and nomenclature of plants• The students will know the modern trends in Plant Taxonomy• The students will understand the role of Herbarium, use of Floras and Monographs• The students will understand the importance of microbes in our lives and the ecosystem• The students will study about the diseases caused by microbes and their treatment methods
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Botany for Competitive examinations	18PBOECC1	<ul style="list-style-type: none"> • The student will be empowered to face the competitive examinations. • The student will have the capacity to prepare multiple choice questions and other type of questions to prepare for various examinations
Phytochemistry and Pharmacognosy	18PBOECC2	<ul style="list-style-type: none"> • A knowledge of the various phytochemicals present in plants and their use as medicine • The use of pharmacognosy to identify plants used as adulterants in various medicines • Development of skills for basic bioprospecting of plants
Medicinal Plants of India	18PBOECC3	<ul style="list-style-type: none"> • A knowledge of the medicinal wealth of our nation • The importance of cultivation of medicinal plants • The various tools and techniques needed for cultivation and marketing of medicinal plants will be learnt
Nano-Biotechnology	18PBOECC4	<ul style="list-style-type: none"> • The awareness of the importance of nanobiotechnology • The use of nanobiotechnology for the production of different materials

Forestry	18UBOECC5	<ul style="list-style-type: none"> • The students will know the basics of forest biology and ecology. • The students will understand the significance and conservation of forest resources • The students will grasp contemporary issues in forestry, both domestically and internationally. • The students will appear in Indian Forestry Service exam by familiarizing with basics of forestry
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Name of the course	Course Code	Course Outcome
Plant Diversity I	15UBOT11	<ul style="list-style-type: none"> • The students will gain knowledge on the diversity of cryptogams in Tamil Nadu. • The student would understand the relations between plants and their evolution
Plant Diversity I	15UBOT12	<ul style="list-style-type: none"> • The students will gain an understanding of the diversity of lower groups of plants • The students will understand the relations between plants and their evolution • The students will gain knowledge on the diversity of cryptogams in Tamil Nadu.

Food & Nutrition	15UNM11	<ul style="list-style-type: none"> • The students will gain an understanding about the relation between food and nutrition • The students will gain interest in the art of maintaining good health
Plant Diversity II	15UBOT21	<ul style="list-style-type: none"> • The students will understand the diversity, life cycle patterns, major evolutionary trends and fossilization process of Pteridophytes and Gymnosperms.
Plant Diversity II	15UBOT22	<ul style="list-style-type: none"> • The students will understand the diversity, life cycle patterns, major evolutionary trends and fossilization process of Pteridophytes and Gymnosperms.
Gardening and Landscaping	15UNM21	<ul style="list-style-type: none"> • The students will learn the techniques of propagation of ornamental plants. • The students will understand the principles and practices in cultivation of ornamental garden making
Horticulture	15USB22	<ul style="list-style-type: none"> • The students will learn the techniques of propagation of horticultural plants. • The students will understand the principles and practices in cultivation of vegetables, fruits and flowers.
Anatomy & Embryology	15UBOT31	<ul style="list-style-type: none"> • The students will acquire in depth knowledge of various kinds and organization of plant tissues.

		<ul style="list-style-type: none"> • The students will understand the developmental aspects of plant structures and the principles in the origin of form in plants. • The students will uncover the role of symmetry and polarity in the overall body organization of the organism
Anatomy & embryology	15UBOTP32	<ul style="list-style-type: none"> • The students will acquire in depth knowledge of various kinds and organization of plant tissues. • The students will understand the developmental aspects of plant structures and the principles in the origin of form in plants. • The students will uncover the role of symmetry and polarity in the overall body organization of the organism
Herbal Botany	15USB32	<ul style="list-style-type: none"> • The students will have a preliminary knowledge about various economically important local herbs • The students will understand the importance of traditional foods and medicines
Taxonomy of Angiosperms	15UBOT41	<ul style="list-style-type: none"> • The students will understand the principles of biosystematics, classification and nomenclature of plants • The students will know the moderntrends in Plant Taxonomy • The students will understand the role of Herbarium, use of Floras

		and Monographs
Taxonomy of Angiosperms	15UBOT42	<ul style="list-style-type: none"> • The students will understand the principles of biosystematics, classification and nomenclature of plants • The students will know the modern trends in Plant Taxonomy • The students will understand the role of Herbarium, use of Floras and Monographs
Biostatistics	15UBOTE41	<ul style="list-style-type: none"> • The students will apply the statistical methods in biological studies
Ecotourism	15USB42	<ul style="list-style-type: none"> • The students will develop an understanding of the basic concepts of tourism planning for public and private sector community and regional ecotourism and nature tourism development. • The students will have varying perspectives on tourism and ecotourism policy. • The students will undertake the management of ecotourism products and regions.
Biochemistry & Biophysics	15UBOT51	<ul style="list-style-type: none"> • The students will know about various biomolecules that make up the body of a living organism and their molecular interaction mechanisms
Cell Biology, Genetics & Evolution	15UBOT52	<ul style="list-style-type: none"> • The students will understand the importance of cells, cell organelles and how they work in tandem with one another.

		<ul style="list-style-type: none"> • The students will study the role of genetics in the life of living organisms and the role of evolution in the origin of different forms of life
Ecology	15UBOT53	<ul style="list-style-type: none"> • The students will know how the abiotic factors and biotic factors interact • The students will learn the importance of ecology and ecosystems for the survival of the biosphere • The students will realize the harmful effects of population explosion and pollution.
Microbiology & Plant Pathology	15UBOT54	<ul style="list-style-type: none"> • The students will understand the importance of microbes in our lives and the ecosystem • The students will study about the diseases caused by microbes and their treatment methods
Biochemistry & Biophysics	15UBOT55	<ul style="list-style-type: none"> • The students will know about various biomolecules that make up the body of a living organism and their molecular interaction mechanisms
Cell Biology, Genetics & Evolution	15UBOT56	<ul style="list-style-type: none"> • The students will understand the importance of cells, cell organelles and how they work in tandem with one another. • The students will study the role of genetics in the life of living organisms and the role of evolution in the origin of different forms of life
Ecology	15UBOT57	<ul style="list-style-type: none"> • The students will know how the

		<p>abiotic factors and biotic factors interact</p> <ul style="list-style-type: none"> • The students will learn the importance of ecology and ecosystems for the survival of the biosphere • The students will realize the harmful effects of population explosion and pollution.
Microbiology & Plant Pathology	15UBOT58	<ul style="list-style-type: none"> • The students will understand the importance of microbes in our lives and the ecosystem • The students will study about the diseases caused by microbes and their treatment methods
Biological Techniques	15UBOTE59	<ul style="list-style-type: none"> • The students will learn the different biological techniques needed in a biological lab • The students will apply the relevant techniques for their project work
Plant Physiology	15UBOT61	<ul style="list-style-type: none"> • The students will learn the major principles of plant physiology with the focus links between structure and function. • The students will understand the key concepts involved in understanding crucial processes (e.g. water and nutrient transport, photosynthate production and transport, growth and development. Key regulatory hormones) • The students will discern the reasons for differences in metabolic rates based on

		structure, function or developmental stage of the plant.
Molecular Biology & Genetic Engineering	15UBOT62	<ul style="list-style-type: none"> • The students will enhance the knowledge of biology at molecular level and learn the laboratory skills that form the foundation for major, modern scientific breakthroughs that influence society. • The students will equip the students with adequate knowledge they need to know regarding vital biomolecules and their interactions to enter the pharmaceutical industry or academic research with confidence
Plant Biotechnology	15UBOT63	<ul style="list-style-type: none"> • The students will understand the methods in biotechnology and also to apply the concepts of genetic engineering for animal wellbeing. • The students will have an in depth knowledge of the advanced areas of plant biotechnology.
Plant Physiology	15UBOT64	<ul style="list-style-type: none"> • The students will learn the major principles of plant physiology with the focus links between structure and function. • The students will understand the key concepts involved in understanding crucial processes (e.g. water and nutrient

		<p>transport, photosynthate production and transport, growth and development. Key regulatory hormones)</p> <ul style="list-style-type: none"> • The students will discern the reasons for differences in metabolic rates based on structure, function or developmental stage of the plant.
Molecular Biology , Genetic engineering& Plant Biotechnology	15UBOT65	<ul style="list-style-type: none"> • The students will enhance the knowledge of biology at molecular level and learn the laboratory skills that form the foundation for major, modern scientific breakthroughs that influence society. • The students will equip the students with adequate knowledge they need to know regarding vital biomolecules and their interactions to enter the pharmaceutical industry or academic research with confidence • The students will understand the methods in biotechnology and also to apply the concepts of genetic engineering for animal wellbeing. • The students will have an in depth knowledge of the advanced areas of plant biotechnology.
Bioinformatics	15UBOT66	<ul style="list-style-type: none"> • The students will learn the

		<p>importance of computational methods in biology</p> <ul style="list-style-type: none"> • The students will acquire knowledge about the database and the Biomolecules
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Name of the course	Course Code	Course Outcome
Plant Diversity I	15PBOTC11	<ul style="list-style-type: none"> • The students will gain knowledge on the diversity of cryptogams in Tamil Nadu. • The student would understand the relations between plants and their evolution
Cell Biology & Genetics	15PBOTC12	<ul style="list-style-type: none"> • The students will understand the importance of cells, cell organelles and how they work in tandem with one another. • The students will study the role of genetics in the life of living organisms and the role of evolution in the origin of different forms of life
Anatomy and Developmental Botany	15PBOTC13	<ul style="list-style-type: none"> • The students will acquire in depth knowledge of various kinds and organization of plant tissues. • The students will understand the developmental aspects of plant structures and the principles in the origin of form in plants. • The students will uncover the role of symmetry and polarity in the overall body organization of the organism

Plant Breeding and Horticulture	15PBOTE14	<ul style="list-style-type: none"> • The students will understand the principles and practices in the cultivation of vegetables, fruits and flowers. • The students will be familiar with the intellectual property rights and patenting • The students will learn the techniques of propagation of horticultural plants. • The students will understand the principles and practices in cultivation of vegetables, fruits and flowers.
Plant Diversity I and	15PBOTR15	<ul style="list-style-type: none"> • The students will gain knowledge on the diversity of cryptogams in Tamil Nadu. • The student would understand the relations between plants and their evolution

<p>Cell Biology & Genetics and Anatomy & Developmental Botany</p>	<p>15PBOTR16</p>	<ul style="list-style-type: none">• The students will understand the importance of cells, cell organelles and how they work in tandem with one another.• The students will study the role of genetics in the life of living organisms and the role of evolution in the origin of different forms of life• The students will acquire in depth knowledge of various kinds and organization of plant tissues.• The students will understand the developmental aspects of plant structures and the principles in the origin of form in plants.• The students will uncover the role of symmetry and polarity in the overall body organization of the organism
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Ecology	15PBOTC21	<ul style="list-style-type: none"> • The students will know how the abiotic factors and biotic factors interact • The students will learn the importance of ecology and ecosystems for the survival of the biosphere • The students will realize the harmful effects of population explosion and pollution.
Plant Diversity II	15PBOTC22	<ul style="list-style-type: none"> • The students will understand the diversity, life cycle patterns, major evolutionary trends and fossilization process of Pteridophytes and Gymnosperms.
Taxonomy of Angiosperms	15PBOTC23	<ul style="list-style-type: none"> • The students will understand the principles of biosystematics, classification and nomenclature of plants • The students will know the modern trends in Plant Taxonomy • The students will understand the role of Herbarium, use of Floras and Monographs
Research Methodology	15PBOTR25	<ul style="list-style-type: none"> • The students will understand the importance of research for the development of science and the welfare of the human race • The students will have hands on experience of the various methods of doing scientific research
Ecology	15PBOTR25	<ul style="list-style-type: none"> • The students will know how the abiotic factors and biotic factors interact • The students will learn the importance of ecology and

		<p>ecosystems for the survival of the biosphere</p> <ul style="list-style-type: none"> • The students will realize the harmful effects of population explosion and pollution.
Plant Diversity II and Taxonomy of Angiosperms	15PBOTR26	<ul style="list-style-type: none"> • The students will understand the diversity, life cycle patterns, major evolutionary trends and fossilization process of Pteridophytes and Gymnosperms. • The students will understand the principles of biosystematics, classification and nomenclature of plants • The students will know the modern trends in Plant Taxonomy • The students will understand the role of Herbarium, use of Floras and Monographs
Biochemistry & Biophysics	15PBOTC31	<ul style="list-style-type: none"> • The students will know about various biomolecules that make up the body of a living organism and their molecular interaction mechanisms
Plant Biotechnology	15PBOTC32	<ul style="list-style-type: none"> • The students will understand the methods in biotechnology and also to apply the concepts of genetic engineering for animal wellbeing. • The students will have an in depth knowledge of the advanced areas of plant biotechnology.
Molecular Biology & Genetic Engineering	15PBOTC33	<ul style="list-style-type: none"> • The students will enhance the knowledge of biology at molecular level and learn the laboratory skills that form the foundation for major, modern scientific breakthroughs

		<p>that influence society.</p> <ul style="list-style-type: none"> • The students will equip the students with adequate knowledge they need to know regarding vital biomolecules and their interactions to enter the pharmaceutical industry or academic research with confidence
Biostatistics and Bioinformatics	15PBOTE34	<ul style="list-style-type: none"> • The students will apply the statistical methods in biological studies • The students will learn the importance of computational methods in biology • The students will acquire knowledge about the database and the Biomolecules
Biochemistry & Biophysics	15PBOTR35	<ul style="list-style-type: none"> • The students will know about various biomolecules that make up the body of a living organism and their molecular interaction mechanisms

<p>Plant Biotechnology and Molecular Biology & Genetic Engineering</p>	<p>15PBOTR36</p>	<ul style="list-style-type: none">• The students will understand the methods in biotechnology and also to apply the concepts of genetic engineering for animal wellbeing.• The students will have an in depth knowledge of the advanced areas of plant biotechnology.• The students will enhance the knowledge of biology at molecular level and learn the laboratory skills that form the foundation for major, modern scientific breakthroughs that influence society.• The students will equip the students with adequate knowledge they need to know regarding vital biomolecules and their interactions to enter the pharmaceutical industry or academic research with confidence
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Plant Physiology	15PBOTC41	<ul style="list-style-type: none"> • The students will learn the major principles of plant physiology with the focus links between structure and function. • The students will understand the key concepts involved in understanding crucial processes (e.g. water and nutrient transport, photosynthate production and transport, growth and development. Key regulatory hormones) • The students will discern the reasons for differences in metabolic rates based on structure, function or developmental stage of the plant.
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BSc Bontany (2012-2015)

Name of the course	Course Code	Course Outcome
Plant Diversity I	12UBO11	<ul style="list-style-type: none"> • The students will gain knowledge on the diversity of cryptogams in Tamil Nadu. • The student would understand the relations between plants and their evolution
Herbal Botany	12UNM11	<ul style="list-style-type: none"> • The students will have a preliminary knowledge about various economically important local herbs

		<ul style="list-style-type: none"> • The students will understand the importance of traditional foods and medicines
Developmental Botany	12UBO21	<ul style="list-style-type: none"> • The students will acquire in depth knowledge of various kinds and organization of plant tissues. • The students will understand the developmental aspects of plant structures and the principles in the origin of form in plants. • The students will uncover the role of symmetry and polarity in the overall body organization of the organism
Horticulture	12USB22	<ul style="list-style-type: none"> • The students will learn the techniques of propagation of horticultural plants. • The students will understand the principles and practices in cultivation of vegetables, fruits and flowers.
Gardening and Landscaping	12UNM21	<ul style="list-style-type: none"> • The students will learn the techniques of propagation of ornamental plants. • The students will understand the principles and practices in cultivation of ornamental garden making
Plant Diversity II	12UBT31	<ul style="list-style-type: none"> • The students will understand the diversity, life cycle patterns, major evolutionary trends and fossilization process of Pteridophytes and Gymnosperms.
Ecotourism	12USB32	<ul style="list-style-type: none"> • The students will develop an understanding of the basic concepts of tourism planning for

		<p>public and private sector community and regional ecotourism and nature tourism development.</p> <ul style="list-style-type: none"> • The students will have varying perspectives on tourism and ecotourism policy. • The students will undertake the management of ecotourism products and regions.
Taxonomy of Angiosperms	12UBO41	<ul style="list-style-type: none"> • The students will understand the principles of biosystematics, classification and nomenclature of plants • The students will know the modern trends in Plant Taxonomy • The students will understand the role of Herbarium, use of Floras and Monographs
Taxonomy of Angiosperms and Plant Physiology	12UAB41	<ul style="list-style-type: none"> • The students will understand the principles of biosystematics, classification and nomenclature of plants • The students will know the modern trends in Plant Taxonomy • The students will understand the role of Herbarium, use of Floras and Monographs
Biological Techniques	12USB41	<ul style="list-style-type: none"> • The students will learn the different biological techniques needed in a biological lab • The students will apply the relevant techniques for their project work
Biostatistics	12UBE42	<ul style="list-style-type: none"> • The students will apply the statistical methods in biological

		studies
Cell Biology, Genetics & Evolution	12UBT51	<ul style="list-style-type: none"> • The students will understand the importance of cells, cell organelles and how they work in tandem with one another. • The students will study the role of genetics in the life of living organisms and the role of evolution in the origin of different forms of life
Biochemistry & Biophysics	12UBT52	<ul style="list-style-type: none"> • The students will know about various biomolecules that make up the body of a living organism and their molecular interaction mechanisms
Molecular Biology & Genetic Engineering	12UBT53	<ul style="list-style-type: none"> • The students will enhance the knowledge of biology at molecular level and learn the laboratory skills that form the foundation for major, modern scientific breakthroughs that influence society. • The students will equip the students with adequate knowledge they need to know regarding vital biomolecules and their interactions to enter the pharmaceutical industry or academic research with confidence
Microbiology & Plant Pathology	12UBT54	<ul style="list-style-type: none"> • The students will understand the importance of microbes in our lives and the ecosystem • The students will study about the diseases caused by microbes and their treatment methods

<p>Molecular Biology & Genetic Engineering & Cell Biology, Genetics & Evolution</p>	<p>12UBT55</p>	<ul style="list-style-type: none">• The students will understand the importance of cells, cell organelles and how they work in tandem with one another.• The students will study the role of genetics in the life of living organisms and the role of evolution in the origin of different forms of life• The students will enhance the knowledge of biology at molecular level and learn the laboratory skills that form the foundation for major, modern scientific breakthroughs that influence society.• The students will equip the students with adequate knowledge they need to know regarding vital biomolecules and their interactions to enter the pharmaceutical industry or academic research with confidence
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<p>Biochemistry & Biophysics and Microbiology & Plant Pathology</p>	<p>12UBT56</p>	<ul style="list-style-type: none"> • The students will know about various biomolecules that make up the body of a living organism and their molecular interaction mechanisms • The students will understand the importance of microbes in our lives and the ecosystem • The students will study about the diseases caused by microbes and their treatment methods
<p>Bioinformatics</p>	<p>12UBT51</p>	<ul style="list-style-type: none"> • The students will learn the importance of computational methods in biology • The students will acquire knowledge about the database and the Biomolecules
<p>Plant Physiology</p>	<p>12UBT61</p>	<ul style="list-style-type: none"> • The students will learn the major principles of plant physiology with the focus links between structure and function. • The students will understand the key concepts involved in understanding crucial processes (e.g. water and nutrient transport, photosynthate production and

		<p>transport, growth and development. Key regulatory hormones)</p> <ul style="list-style-type: none"> • The students will discern the reasons for differences in metabolic rates based on structure, function or developmental stage of the plant.
Environmental Biology	12UBT62	<ul style="list-style-type: none"> • The students will know how the abiotic factors and biotic factors interact • The students will learn the importance of ecology and ecosystems for the survival of the biosphere • The students will realize the harmful effects of population explosion and pollution.
Plant Biotechnology	12UBT63	<ul style="list-style-type: none"> • The students will understand the methods in biotechnology and also to apply the concepts of genetic engineering for animal wellbeing. • The students will have an in depth knowledge of the advanced areas of plant biotechnology.
Plant Physiology	12UBT64	<ul style="list-style-type: none"> • The students will learn the major principles of plant physiology with the focus links between structure and function. • The students will understand the key concepts involved in understanding crucial processes (e.g. water and nutrient transport, photosynthate production and transport, growth and

		<p>development. Key regulatory hormones)</p> <ul style="list-style-type: none">• The students will discern the reasons for differences in metabolic rates based on structure, function or developmental stage of the plant.
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<p>Environmental Biology and Plant Biotechnology</p>	<p>12UBT65</p>	<ul style="list-style-type: none">• The students will know how the abiotic factors and biotic factors interact• The students will learn the importance of ecology and ecosystems for the survival of the biosphere• The students will realize the harmful effects of population explosion and pollution.• The students will understand the methods in biotechnology and also to apply the concepts of genetic engineering for animal wellbeing.• The students will have an in depth knowledge of the advanced areas of plant biotechnology.
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Name of the course	Course Code	Course Outcome
Plant Diversity I	12PBT11	<ul style="list-style-type: none"> • The students will gain knowledge on the diversity of cryptogams in Tamil Nadu. • The student would understand the relations between plants and their evolution
Microbiology & Plant Pathology	12PBT12	<ul style="list-style-type: none"> • The students will understand the importance of microbes in our lives and the ecosystem • The students will study about the diseases caused by microbes and their treatment methods
Developmental Botany and Tissue Culture	12PBT13	<ul style="list-style-type: none"> • The students will acquire in depth knowledge of various kinds and organization of plant tissues. • The students will understand the developmental aspects of plant structures and the principles in the origin of form in plants. • The students will uncover the role of symmetry and polarity in the overall body organization of the organism
Research Methodology	12PBTE15	<ul style="list-style-type: none"> • The students will understand the importance of research for the development of science and the welfare of the human race • The students will have hands on experience of the various methods

		of doing scientific research
Remote Sensing and GIS	12PBTE15	<ul style="list-style-type: none"> • The students will understand the concepts of remote sensing and GIS • The students will understand the application of remote sensing to study the physical features of the planet
Plant Diversity II	12PBT21	<ul style="list-style-type: none"> • The students will understand the diversity, life cycle patterns, major evolutionary trends and fossilization process of Pteridophytes and Gymnosperms.
Cell Biology & Genetics	12PBT22	<ul style="list-style-type: none"> • The students will understand the importance of cells, cell organelles and how they work in tandem with one another. • The students will study the role of genetics in the life of living organisms and the role of evolution in the origin of different forms of life
Taxonomy of Angiosperms	12PBT23	<ul style="list-style-type: none"> • The students will understand the principles of biosystematics, classification and nomenclature of plants • The students will know the modern trends in Plant Taxonomy • The students will understand the role of Herbarium, use of Floras and Monographs
Biodiversity Conservation	12PBTE25	<ul style="list-style-type: none"> • The students will gain an understanding of the biodiversity in Tamil Nadu, in India and the world. • The students will ingrain the

		importance of conserving biodiversity in the students.
Organic Farming	12PBTE25	<ul style="list-style-type: none"> • The students will know about organic methods of food production • The students will learn and understand the different challenges that arise in organic farming
Biochemistry & Biophysics	12PBT31	<ul style="list-style-type: none"> • The students will know about various biomolecules that make up the body of a living organism and their molecular interaction mechanisms
Plant Ecology	12PBT32	<ul style="list-style-type: none"> • The students will know how the abiotic factors and biotic factors interact • The students will learn the importance of ecology and ecosystems for the survival of the biosphere • The students will realize the harmful effects of population explosion and pollution.
Molecular Biology & Genetic Engineering	12PBT33	<ul style="list-style-type: none"> • The students will enhance the knowledge of biology at molecular level and learn the laboratory skills that form the foundation for major, modern scientific breakthroughs that influence society. • The students will equip the students with adequate knowledge they need to know regarding vital biomolecules and their interactions to enter the pharmaceutical industry or academic research with confidence

Plant Breeding and Horticulture	12PBTE35	<ul style="list-style-type: none"> • The students will understand the principles and practices in the cultivation of vegetables, fruits and flowers. • The students will be familiar with the intellectual property rights and patenting • The students will learn the techniques of propagation of horticultural plants. • The students will understand the principles and practices in cultivation of vegetables, fruits and flowers.
Phytochemistry and Pharmacognosy	12PBTE35	<ul style="list-style-type: none"> • A knowledge of the various phytochemicals present in plants and their use as medicine • The use of pharmacognosy to identify plants used as adulterants in various medicines • Development of skills for basic bioprospecting of plants
Biostatistics and Bioinformatics	12PBT41	<ul style="list-style-type: none"> • The students will apply the statistical methods in biological studies • The students will learn the importance of computational methods in biology • The students will acquire knowledge about the database and the Biomolecules
Plant Physiology	12PBT42	<ul style="list-style-type: none"> • The students will learn the major principles of plant physiology with the focus links between structure

		<p>and function.</p> <ul style="list-style-type: none">• The students will understand the key concepts involved in understanding crucial processes (e.g. water and nutrient transport, photosynthate production and transport, growth and development. Key regulatory hormones)• The students will discern the reasons for differences in metabolic rates based on structure, function or developmental stage of the plant.
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Programme : B.Sc Chemistry

Programme Code : UCH

Programme Specific Outcomes:

Students will

- 1. experience ecofriendly microscale experiments and learn green chemistry techniques**
- 2. widen their knowledge through interdisciplinary approach in disciplines biology, physics and mathematics**
- 3. understand the importance of bioinorganic, bioorganic and biophysical chemistry**
- 4. explore new synthetic methodology for developing novel compounds which are the urgent need of Indian society**
- 5. acquire skills in analytical and spectroscopic tools for analyzing various chemical species**
- 6. familiarize with the emerging fields such as, material science, nanomaterials, transition metal complexes, metal-organic frameworks, biomolecules, supramolecules and nuclear chemistry**
- 7. gain the knowledge about chemical thermodynamics, chemical equilibrium, kinetics and electrochemistry**
- 8. understand the significance of stereochemistry, reaction mechanism, reagents and photochemistry**
- 9. be able to handle researches in all the cutting edges fields of chemistry to become pillars of our Nation**
- 10. be able to live peacefully with the application of chemical knowledge in their lives.**

Programme : M.Sc Chemistry

Programme Code : PCH

Programme Specific Outcomes:

Students will

1. understand atomic, molecular structure and properties of chemical systems
2. expand their knowledge in the concept of quantum chemistry, thermodynamics and kinetics and its application to various chemical system
3. develop skills in analytical tools to get a thorough knowledge of chemical species
4. understand the structure, bonding, reactivity mechanisms in organic molecules
5. develop creative ideas to synthesize novel materials for advanced applications
6. familiarize with the modern methods in synthesis, transition metal complexes, bio-inorganic, catalysis, metal-organic frameworks, supramolecules and nuclear chemistry
7. develop research ideas and solve simple problems through their research project
understand the significance of stereochemistry, reaction mechanism, reagents and photochemistry
9. be able to handle researches in all the cutting edges fields of chemistry to become pillars of our Nation
10. be able to live peacefully with the application of chemical knowledge in their lives.

BSc Chemistry (2018-2019)

Course	Course Outcome
Inorganic Chemistry – I (18UCH11)	<ul style="list-style-type: none">❖ CO1 Students will have a firm foundation in elements of periodic table and periodic properties❖ CO2 Students will understand the types of chemical

	<p>forces in inorganic compounds</p> <ul style="list-style-type: none"> ❖ CO3 Students will be able to explore the importance of alkali and alkaline metals and its significance in the field of energy and biology ❖ CO4 Students will gain the understanding of occurrence of elements, separation and purification process etc ❖ CO5 Students will be skilled in carryout titrimetric experiments, accurately record and analysing results
Inorganic volumetric estimation – I (18UCHP11)	To develop the analytical ability in performing titrimetric analysis
Mathematics – I (Phy&Chem) (18UMTA11)	<p>CO1 To introduce various serious and summation</p> <p>CO2 To have deep knowledge of theory of equations and trigonometrically functions</p> <p>CO3to introduce matrix theory to solve system of equations</p> <p>CO4to have deep knowledge of integration and applications</p>
Food Chemistry (18UNM11)	<ul style="list-style-type: none"> • CO1 Thorough knowledge in food chemistry • CO2 Understanding chemical behavior of foo

	<ul style="list-style-type: none"> • CO3 Understanding the biological importance of chemistry • CO4 Prevention of taking food with additives and preservatives • CO5 Generation of awareness towards healthy food.
Organic chemistry – I (18UCH21)	<p>CO1 tudents will have strong foundation in organic fundamentals</p> <ul style="list-style-type: none"> ❖ CO2 explore the preliminary ideas of 3D structures ❖ CO3 have broad knowledge in aliphatic systems ❖ CO4 know the substituent role in the aromatic reaction systems ❖ CO5 know the importance and the uses of Organometallic compounds in the field of organic synthesis
Inorganic volumetric estimation – II (18UCHP21)	To enhance the quantitative analytical skills for the estimation of bio compounds
Allied Mathematics – II (Phy&Chem) (18UMTA21)	<p>CO1 To introduce elementary group theory and properties</p> <p>CO2 To an-depth study of differential equations and partial differents equations</p>

	<p>CO3 To introduce double and triple integrals with applications</p> <p>CO4 To introduce correlation, regression and applications</p>
<p>Agricultural Chemistry (18UNM21)</p>	<p>CO1 Development of an accurate and useful recommendation for soil application</p> <p>CO2 Planning out specific fertilizers and manures for better yields</p> <p>CO3 Understanding fertilizer system and its benefits</p> <p>CO4 Comprehensive understanding on pesticides and optimization of their usage</p> <p>CO5 Understanding water and soil pollution and their prevention</p>
<p>Pharmaceutical chemistry (18USB22)</p>	<p>CO1 Understanding the importance of chemistry in the development and application of therapeutic drugs.</p> <p>CO2 Development in understanding of the physico-chemical properties of drugs.</p> <p>CO3 Obtaining knowledge of chemical structures and nomenclature.</p> <p>CO4. Appreciating the importance of ionisation of drugs with</p>

	<p>respect to the solubility and efficacy of drugs</p> <p>CO5 Understanding how current drugs were developed and how new scientific techniques will provide future drugs.</p>
Inorganic chemistry-II (18UCH31)	<ul style="list-style-type: none"> ❖ C01 Students will understand the nuclear reactions, radio activity and applications of radioisotopes ❖ C02 Students will get more insight in the theories of acid base concepts and compounds of noble gases ❖ C03 Students will gain the understanding of boron, carbon and silicon based compounds ❖ C04 Students will familiarise with the chemistry of compounds of sulphur, nitrogen and phosphorous ❖ C05 Students will acquire skills in the micro level qualitative analysis of acid and basic radicals
Inorganic qualitative analysis-I (18UCHP31)	To develop the skills on the identification of various elements in the different sources
Physics – I (18UPH31)	<p>Enables the learner to understand the fundamental concepts</p> <p>□□ Principles and development in properties of matter and Heat Thermodynamics</p>
Everyday chemistry (18USB32)	<p>CO1 Understanding the relation between matter and energy</p> <p>CO2 Knowing the importance of binary systems</p> <p>CO3 Development of knowledge in acids and bases</p>

	<p>CO4 Understanding drugs, laxatives and other compounds of everyday application</p> <p>CO5 Gaining knowledge in the energy changes and requirements</p>
<p>Organic chemistry – II (18UCH41)</p>	<p>CO1 Student will acquire the nucleophilic and electrophilic mechanistic approach in aliphatic halogens</p> <p>CO2 explore the idea of synthetically important aryl halogen compounds</p> <p>CO3 have the depth knowledge in reaction orientation and uses of hydroxyl and carbonyl compounds</p> <p>CO4 come to know the reaction path way by exploring some naming reactions</p> <p>CO5 understand the importance of active methylene compounds in synthetic chemistry</p>
<p>Inorganic quantitative analysis-II (18UCHP41)</p>	<p>To acquire the ability to identify and separate the various chemical constituents present in the mixture</p>
<p>Thermodynamics & Solid state (18UCHE41)</p>	<p>CO1 Complete understanding of principles of thermodynamics</p> <p>CO2 Clear idea about spontaneity and non spontaneity of</p>

	<p>processes</p> <p>CO3 A new view on processes having dynamics of heat</p> <p>CO4 Clear picture about solid state</p> <p>CO5 Understanding regularity in crystals.</p>
Material science (18USB41)	<p>CO1 To understand the chemistry of materials using fundamental theories</p> <p>CO2 To learn the superconducting behavior and magnetism in molecular and atomic level</p> <p>CO3 To familiarize with semiconductor devices and energy efficient light emitting diodes</p> <p>CO4 To know the advancement in the field of energy harvesting system with new materials</p> <p>CO5 To understand the demand and challenge in the development of energy storage system and materials</p>
Physics – II	<p>CO1 Students will understand the behavior of electricity through a metal conductor.</p> <p>CO2 The basic components of electronics and their behavior in electric field are discussed</p> <p>CO3 Diodes and their characteristics are explained which will enable to students to understand the fundamentals of electronics.</p> <p>CO4 Students will understand the behavior of light through prism and polarization.</p>

	<p>CO5 Important concepts on relativity and time dilations are explained. Students will understand the relativistic mechanics through this unit.</p>
<p>Organic chemistry-III (18UCH51)</p>	<p>CO1 Students will get an exposure in both nitro and amine compounds</p> <p>CO2 have general idea in petroleum products of condensed systems</p> <p>CO3 have basic knowledge in concerted reactions</p> <p>CO4 generate interest in knowing more synthetically oriented reagents</p> <p>CO5 come to know the importance of spectral techniques in the field of organic synthesis</p>
<p>Inorganic chemistry-III (18UCH52)</p>	<p>CO1. Students will understand the theories, nomenclature and isomerism of coordination compounds</p> <p>CO2 Students will gain the ability to find the structure and nature of bonding of inorganic compounds</p> <p>CO3 Students will explore the importance of transition and inner transition elements</p> <p>CO4 Students will get aware of applications of nanomaterials and fundamentals of supramolecular chemistry</p> <p>CO5 Students will enrich their skills in the estimation of metal ions by gravimetric method</p>

<p>Physical chemistry – I (18UCH53)</p>	<p>CO1 Describe the distribution of velocities for the particles in a gas sample and what factors affect this distribution.</p> <p>CO2 List and explain several technological applications of colloids.</p> <p>CO3 Identify the types of intermolecular forces experienced by specific molecules based on their structures</p> <p>CO4 Constructs phase diagrams for single and multi-component systems</p> <p>CO5 Recall how changing the concentration, volume, or temperature of a system at equilibrium affects the equilibrium position.</p>
<p>Physical chemistry – II (18UCH54)</p>	<p>CO1 Find the applications and buffer actions of various solutions</p> <p>CO2 Assign the point group of any molecules</p> <p>CO3 understanding the basic principles of wave mechanics</p> <p>CO4 Calculate the stability of molecules.</p> <p>CO5 Can collect, accurately record, organise, interpret and draw</p>

	conclusions from spectral data.
Inorganic gravimetric estimation (18UCHP55)	CO1 to Familiarises the students with the quantitative estimation of metal ions through precipitation method
Preparation of organic compounds (18UCHP57)	CO1 to understand the various reactive techniques involved in the reaction mechanism
Estimation of organic compounds (18UCHP58)	CO1 to acquire the skills for the quantitative estimation of organic compounds
Preparation of coordination compounds (18UCHP56)	CO1 to help the students to develop the reaction strategies involved in the coordination complexes
Biomolecules (18UCHE51)	<p>CO1 acquire the knowledge selective role of carbohydrates in our life systems</p> <p>CO2 know the aromaticity of heterocyclic compounds and the contribution of poly amino acids as building blocks in human system</p> <p>CO3 learn the structural elucidation process in natural products</p> <p>CO4 update the knowledge of functional behaviours of various biomolecules</p> <p>CO5 obtain basic ideas in human metabolism</p>

<p>Organic chemistry-IV (18UCH61)</p>	<p>CO1 know the chemistry of polymers, dyes and their industrial needs</p> <p>CO2 learn the typical approach of molecules in rearrangements</p> <p>CO3 get the knowledge of writing mechanisms of some name reactions</p> <p>CO4 come to know the importance of analytical tools in predicting molecules</p> <p>CO5 come to know the importance of analytical tools in predicting molecules</p>
<p>Inorganic chemistry-IV (18UCH62)</p>	<p>CO1 To learn the metal-ligand bonding in organometallic compounds and their applications in catalysis and industry</p> <p>CO2 To understand the coordination theories and nature of chemical bonding in coordination compounds</p> <p>CO3 To understand the kinetics and reaction mechanism involved in the formation of coordination compounds</p> <p>CO4 To learn the spectral methods in the analysis of metal complexes</p> <p>CO5 To know about biological functions of coordination</p>

	complexes, toxicity, excess and deficiency problems of metals in biological systems.
Physical chemistry – III (18UCH63)	<p>CO1 Discuss the factors that affect the rate of chemical reactions and determine the rate of a reaction</p> <p>CO2 Predict the quantum yield and types of reaction</p> <p>CO3 Understand the variation of conductance with different factors.</p> <p>CO4 Understand the variation of conductance with different factors.</p> <p>CO5 Identify the differences and similarities of the different types of batteries.</p>
Qualitative analysis of Organic compounds (18UCHP64)	CO4 To learn the specific identification of various functional groups
Practical Physical chemistry (18UCHP65)	To develop the skills on the analysis of physical characteristics of the compounds
Comprehensive chemistry (18UCHS61)	To acquire problem solving skills chemistry
Computer applications in chemistry (18UCHE61)	<p>CO1 Use of C language to solve chemistry problems</p> <p>CO2 Ability to apply chemdraw</p> <p>CO3 Ability to use chromatography techniques in research</p>

	CO4 Development of analytical skills CO5 Development in problem solving ability
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MSc Chemistry (2018-2019)

Course	Course Outcome
Organic Chemistry – I (18PGCH11)	CO1 Learners get an elaborate knowledge in the various effects operating in organic reactions and in chemical bondings CO2 The effect of aromaticity elaborately studied CO3 A deep knowledge in the role of stereochemistry in organic reactions is obtained CO4 The role of reagents in organic synthesis is explained CO5 Understanding the overall organic chemistry
Inorganic Chemistry – I (18PGCH12)	CO1 Grasp the deep knowledge on structure of solids CO2 Acquire the knowledge on crystal defects and metallic bonding CO3 Attain the ability to identify the acidic and basic nature of solutions CO4 Understand the nature of ionic bonding theoretically and experimentally CO5 Flourish the idea of covalent bonding and mixing of orbitals

<p>Physical Chemistry – I (18PGCH13)</p>	<p>CO1 Constructs phase diagrams for single and multi-component systems CO2 Can evaluate thermodynamic quantities that relate to the vapour-liquid or liquid-liquid equilibria. CO3 Students understand the term ‘chemical equilibrium’ through the experiment CO4 Students understand the effect of change in concentration on the equilibrium of a reaction CO5 Students understand the relationship between thermodynamic properties</p>
<p>Selected Topics In Inorganic And Supramolecular Chemistry (18PGCHE11)</p>	<p>CO1 Acquire the knowledge on use of orbitals CO2 Grasp the idea on applications of metals and non-metals in Living system CO3 Ability to observe the role of metals in medicine CO4 Understand the basic concepts of Supramolecular Chemistry CO5 Got the knowledge on Supramolecular devices and its applications</p>
<p>Chemistry Of Natural Products (18PGCHE11)</p>	<p>CO1 Getting a thorough knowledge of natural products CO2 Gaining idea on the role of chemistry in nature CO3 Understanding the usefulness of certain naturally available phytochemicals CO4 Understanding the application of phytochemistry in medicine CO5 Getting an eye opening for research in phytochemistry</p>
<p>Organic Chemistry – II (18PGCH21)</p>	<p>CO1 Getting a thorough knowledge of basic of organic chemistry CO2 An in-depth knowledge of electrophilic substitution reaction imparted CO3 A thorough knowledge in organic photochemistry and pericyclic reaction is imparted</p>

	<p>CO4 A detail knowledge about novel organic name reactions imparted</p> <p>CO5 The backward approach of reaction mechanism from reactant to product is explained using different examples</p>
Inorganic Chemistry – II (18PGCH22)	<p>CO1 Able to compare and contrast the characteristic features of transition and inner transition elements</p> <p>CO2 Acquire the knowledge on theories of coordination complexes</p> <p>CO3 Grasp the idea on kinetics of the complexes</p> <p>CO4 Flourish their knowledge on structural features of inorganic chains, rings and cage compounds</p> <p>CO5 Understand the photochemical behavior of inorganic complexes</p>
Physical Chemistry – II (18PGCH23)	<p>CO1 Able to do the symmetry operations in given molecules</p> <p>CO2 Find the symmetry of any molecule</p> <p>CO3 Assign the point group of any molecules</p> <p>CO4 Able to understand the principles of electronic, microwave, Infra-red and Raman spectroscopy and apply this fundamental understanding to deduce the structure of some simple organic compounds.</p> <p>CO5 Able to understand the principles of NMR, PES and Massbauer spectrum</p>
Pharmaceutical Chemistry (18PGCHE21)	<p>CO1 Acquire the knowledge on chemistry of drugs</p> <p>CO2 Understand the role of Pharmaceutical aids in day-to-day life</p> <p>CO3 Observe the cause of various diseases and their treatment</p> <p>CO4 Grasp the idea about pathogenicidal drugs</p> <p>CO5 Obtain the through application of Bio-regulatory drugs</p>

<p>Agricultural Chemistry (18PGCHE21)</p>	<p>CO1 Inculcation of scientific approach to farming CO2 Knowing the details of pests CO3 Understanding pest and weed management CO4 Knowing to improve yield CO5 Understanding the need of the hour and of the society</p>
<p>Organic Chemistry – III (18PGCH31)</p>	<p>CO1 The practical application of UV-Visible, IR, Mass studies in the structural elucidation is imparted CO2 The functional group identification in organic chemistry is obtained CO3 A deep knowledge in the novel molecular rearrangement studies are obtained CO4 A complete chemistry profile of steroids is obtained CO5 Application of spectroscopy in chemistry is understood</p>
<p>Inorganic Chemistry – III (18PGCH32)</p>	<p>CO1 Gain the knowledge on organometallic compounds CO2 Apply the idea of catalysis in innovative synthesis CO3 Use the spectroscopic theories and apply their experience in Inorganic synthesis CO4 Elucidate the structure of compounds with the help of spectroscopic studies CO5 Prosper the biological innovations by knowing the role of bio systems</p>
<p>Physical Chemistry – III (18PGCH33)</p>	<p>CO1 Discuss the factors that affect the rate of chemical reactions and determine the rate of a reaction CO2 Determine the rate of formation of products and its relation to the rate of disappearance of reactants CO3 Explain how activation energy affects rate and use the Arrhenius equation to predict a rate law for a reaction CO4 Understand the different laws of photochemistry CO5 Understand the behavior of strong and weak electrolytes</p>
<p>Research Methodology</p>	<p>CO1 Grasp the deep knowledge on writing thesis and journal CO2 Attain the ability to identify the errors</p>

(18PGCHE31)	<p>CO3 Understand the nature of bonding</p> <p>CO4 Understand the basic concepts to identify some compounds</p> <p>CO5 Spectral Analysis of compounds</p>
Chemistry Of Food And Beverages (18PGCHE31)	<p>CO1 Knowing the side effect of preservatives</p> <p>CO2 knowing the chemistry of food</p> <p>CO3 Knowing the chemistry of beverages</p> <p>CO4 Understanding the effective usage of food and beverages</p> <p>CO5 Understanding the importance of food and beverages</p>
Emerging Trends In Physical Chemistry (18PGCH41)	<p>CO1 Understand the basic concepts of polymers</p> <p>CO2 Ability to know the molecular weight of different polymers</p> <p>CO3 Acquire the knowledge of nanotechnology</p> <p>CO4 Grasp the idea about applications of nano materials</p> <p>CO5 Acquire the knowledge of application of Quantum</p>
Selected Topics In Chemistry (18PGCH42)	<p>CO1 acknowledge the role of vitamins in living system</p> <p>CO2 grasp the idea on topographical study of organic solid state chemistry</p> <p>CO3 enrich their knowledge on innovations in nanomaterial compounds</p> <p>CO4 appreciate the activity of enzyme action, student praise the role of metals</p> <p>CO5 attain the insight into selected Inorganic compounds</p>
Analytical And Green Chemistry (18PGCHE41)	<p>CO1 Explore their idea on chromatography as a tool for separation of chemical compounds</p> <p>CO2 Grasp the principles involved in thermo-analytical techniques</p> <p>CO3 Apply their knowledge on electro-analytical techniques in electrochemical industries</p> <p>CO4 Make use the spectro-analytical techniques in pharmaceutical industries</p> <p>CO5 Flourishes the innovations in green chemistry are the need of the hour</p>
Pollution (18PGCHE41)	<p>CO1 Understanding the composition of the atmosphere</p> <p>CO2 Creation of awareness of the pollution from the Industrial products</p>

	<p>CO3 Studying the importance of the organic compounds in everyday life</p> <p>CO4 Understanding various methods to improve water quality</p> <p>CO5 Understanding the importance of food and beverages</p>
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BSc Chemistry (2015-2018)

Course	Course Outcome
Inorganic Chemistry – I (15UCH11)	<p>CO1 Students will have a firm foundation in elements of periodic table and periodic properties</p> <p>CO2 Students will understand the types of chemical forces in inorganic compounds</p> <p>CO3 Students will be able to explore the importance of alkali and alkaline metals and its significance in the field of energy and biology</p> <p>CO4 Students will gain the understanding of occurrence of elements, separation and purification process etc</p> <p>CO5 Students will be skilled in carryout titrimetric experiments, accurately record and analysing results</p>
Inorganic volumetric estimation – I (15UCHP11)	To develop the analytical ability in performing titrimetric analysis
Mathematics – I (Phy&Chem) (15UMTA11)	<p>CO1 To introduce various series and summation</p> <p>CO2 To have deep knowledge of theory of equations and</p>

	<p>trigonometrically functions</p> <p>CO3 to introduce matrix theory to solve system of equations</p> <p>CO4 to have deep knowledge of integration and applications</p>
<p>Food Chemistry (15UNM11)</p>	<p>CO1 Thorough knowledge in food chemistry</p> <p>CO2 Understanding chemical behavior of food</p> <p>CO3 Understanding the biological importance of chemistry</p> <p>CO4 Prevention of taking food with additives and preservatives</p> <p>CO5 Generation of awareness towards healthy food.</p>
<p>Organic chemistry – I (15UCH21)</p>	<p>CO1 students will have strong foundation in organic fundamentals</p> <p>CO2 explore the preliminary ideas of 3D structures</p> <p>CO3 have broad knowledge in aliphatic systems</p> <p>CO4 know the substituent role in the aromatic reaction systems</p> <p>CO5 know the importance and the uses of Organometallic compounds in the field of organic synthesis</p>
<p>Inorganic volumetric estimation – II (15UCHP21)</p>	<p>To enhance the quantitative analytical skills for the estimation of bio compounds</p>
<p>Allied Mathematics – II (Phy&Chem)</p>	<p>CO1 To introduce elementary group theory and properties</p> <p>CO2 To an-depth study of differential equations and partial</p>

(15UMTA21)	<p>different equations</p> <p>CO3 To introduce double and triple integrals with applications</p> <p>CO4 To introduce correlation, regression and applications</p>
Agricultural Chemistry (15UNM21)	<p>CO1 Development of an accurate and useful recommendation for soil application</p> <p>CO2 Planning out specific fertilizers and manures for better yields</p> <p>CO3 Understanding fertilizer system and its benefits</p> <p>CO4 Comprehensive understanding on pesticides and optimization of their usage</p> <p>CO5 Understanding water and soil pollution and their prevention</p>
Pharmaceutical chemistry (15USB22)	<p>CO1 Understanding the importance of chemistry in the development and application of therapeutic drugs.</p> <p>CO2 Development in understanding of the physico-chemical properties of drugs.</p> <p>CO3 Obtaining knowledge of chemical structures and nomenclature.</p> <p>CO4. Appreciating the importance of ionisation of drugs with respect to the solubility and efficacy of drugs</p> <p>CO5 Understanding how current drugs were developed and how new scientific techniques will provide future drugs.</p>
Inorganic chemistry-II	<p>CO1 Students will understand the nuclear reactions, radio activity and applications of radioisotopes</p>

(15UCH31)	<p>CO2 Students will get more insight in the theories of acid base concepts and compounds of noble gases</p> <p>CO3 Students will gain the understanding of boron, carbon and silicon based compounds</p> <p>CO4 Students will familiarise with the chemistry of compounds of sulphur, nitrogen and phosphorous</p> <p>CO5 Students will acquire skills in the micro level qualitative analysis of acid and basic radicals</p>
Inorganic qualitative analysis-I (15UCHP31)	To develop the skills on the identification of various elements in the different sources
Physics – I (15UPH31)	<p>Enables the learner to understand the fundamental concepts</p> <ul style="list-style-type: none"> □□ Principles and development in properties of matter and Heat Thermodynamics
Material science (15USB32)	<p>CO1 To understand the chemistry of materials using fundamental theories</p> <p>CO2 To learn the superconducting behavior and magnetism in molecular and atomic level</p> <p>CO3 To familiarize with semiconductor devices and energy efficient light emitting diodes</p> <p>CO4 To know the advancement in the field of energy harvesting system with new materials</p> <p>❖ CO5 To understand the demand and challenge in development of energy storage system and materials</p>
Organic	CO1 Student will acquire the nucleophilic and electrophilic

<p>chemistry – II (15UCH41)</p>	<p>mechanistic approach in aliphatic halogens</p> <p>CO2 explore the idea of synthetically important aryl halogen compounds</p> <p>CO3 have the depth knowledge in reaction orientation and uses of hydroxyl and carbonyl compounds</p> <p>CO4 come to know the reaction path way by exploring some naming reactions</p> <p>CO5 understand the importance of active methylene compounds in synthetic chemistry</p>
<p>Inorganic quantitative analysis-II (15UCHP41)</p>	<p>To acquire the ability to identify and separate the various chemical constituents present in the mixture</p>
<p>Thermodynamics & Solid state (15UCHE41)</p>	<p>CO1 Complete understanding of principles of thermodynamics</p> <p>CO2 Clear idea about spontainityand non spointainity of processes</p> <p>CO3 A new view on processes having dynamics of heat</p> <p>CO4 Clear picture about solid state</p> <p>CO5 Understanding regularity in crystals.</p>
<p>Everyday chemistry (15USB41)</p>	<p>CO1 Understanding the relation between matter and energy</p> <p>CO2 Knowing the importance of binary systems</p> <p>CO3 Development of knowledge in acids and bases</p>

	<p>CO4 Understanding drugs, laxatives and other compounds of everyday application</p> <ul style="list-style-type: none"> • CO5 Gaining knowledge in the energy changes and requirements
<p>Physics – II (15UPH41)</p>	<p>CO1 Students will understand the behavior of electricity through a metal conductor.</p> <p>CO2 The basic components of electronics and their behavior in electric field are discussed</p> <p>CO3 Diodes and their characteristics are explained which will enable to students to understand the fundamentals of electronics.</p> <p>CO4 Students will understand the behavior of light through prism and polarization.</p> <p>CO5 Important concepts on relativity and time dilations are explained. Students will understand the relativistic mechanics through this unit.</p>
<p>Organic chemistry-III (15UCH51)</p>	<p>CO1 Students will get an exposure in both nitro and amine compounds</p> <p>CO2 have general idea in petroleum products of condensed systems</p> <p>CO3 have basic knowledge in concerted reactions</p> <p>CO4 generate interest in knowing more synthetically oriented reagents</p>

	<p>CO5 come to know the importance of spectral techniques in the field of organic synthesis</p>
<p>Inorganic chemistry-III (15UCH52)</p>	<p>CO1. Students will understand the theories, nomenclature and isomerism of coordination compounds</p> <p>CO2 Students will gain the ability to find the structure and nature of bonding of inorganic compounds</p> <p>CO3 Students will explore the importance of transition and inner transition elements</p> <p>CO4 Students will get aware of applications of nanomaterials and fundamentals of supramolecular chemistry</p> <p>CO5 Students will enrich their skills in the estimation of metal ions by gravimetric method</p>
<p>Physical chemistry – I (15UCH53)</p>	<p>CO1 Describe the distribution of velocities for the particles in a gas sample and what factors affect this distribution.</p> <p>CO2 List and explain several technological applications of colloids.</p> <p>CO3 Identify the types of intermolecular forces experienced by specific molecules based on their structures</p> <p>CO4 Constructs phase diagrams for single and multi-component systems</p> <p>CO5 Recall how changing the concentration, volume, or temperature of a system at equilibrium affects the equilibrium position.</p>

Physical chemistry – II (15UCH54)	<p>CO1 Find the applications and buffer actions of various solutions</p> <p>CO2 Assign the point group of any molecules</p> <p>CO3 understanding the basic principles of wave mechanics</p> <p>CO4 Calculate the stability of molecules.</p> <p>CO5 Can collect, accurately record, organise, interpret and draw conclusions from spectral data.</p>
Preparation of organic compounds (15UCHP55)	CO1 to understand the various reactive techniques involved in the reaction mechanism
Estimation of organic compounds (15UCHP56)	CO1 to acquire the skills for the quantitative estimation of organic compounds
Preparation of coordination compounds (15UCHP57)	CO1 to help the students to develop the reaction strategies involved in the coordination complexes
Inorganic Gravimetric estimation (15UCHP58)	CO1 to Familiarises the students with the quantitative estimation of metal ions through precipitation method
Biomolecules (15UCHE51)	<p>CO1 acquire the knowledge selective role of carbohydrates in our life systems</p> <p>CO2 know the aromaticity of heterocyclic compounds and the contribution of poly amino acids as building blocks in human</p>

	<p>system</p> <p>CO3 learn the structural elucidation process in natural products</p> <p>CO4 update the knowledge of functional behaviours of various biomolecules</p> <p>CO5 obtain basic ideas in human metabolism</p>
<p>Organic chemistry-IV (15UCH61)</p>	<p>CO1 know the chemistry of polymers, dyes and their industrial needs</p> <p>CO2 learn the typical approach of molecules in rearrangements</p> <p>CO3 get the knowledge of writing mechanisms of some name reactions</p> <p>CO4 come to know the importance of analytical tools in predicting molecules</p> <p>CO5 come to know the importance of analytical tools in predicting molecules</p>
<p>Inorganic chemistry-IV (15UCH62)</p>	<p>CO1 To learn the metal-ligand bonding in organometallic compounds and their applications in catalysis and industry</p> <p>CO2 To understand the coordination theories and nature of chemical bonding in coordination compounds</p> <p>CO3 To understand the kinetics and reaction mechanism involved in the formation of coordination compounds</p> <p>CO4 To learn the spectral methods in the analysis of metal</p>

	<p>complexes</p> <p>CO5 To know about biological functions of coordination complexes, toxicity, excess and deficiency problems of metals in biological systems.</p>
<p>Physical chemistry – III (15UCH63)</p>	<p>CO1 Discuss the factors that affect the rate of chemical reactions and determine the rate of a reaction</p> <p>CO2 Predict the quantum yield and types of reaction</p> <p>CO3 Understand the variation of conductance with different factors.</p> <p>CO4 Understand the variation of conductance with different factors.</p> <p>CO5 Identify the differences and similarities of the different types of batteries.</p>
<p>Qualitative analysis of Organic compounds (15UCHP64)</p>	<p>CO1 To learn the specific identification of various functional groups</p>
<p>Practical Physical chemistry (15UCHP65)</p>	<p>To develop the skills on the analysis of physical characteristics of the compounds</p>
<p>Computer applications in chemistry (15UCHE61)</p>	<p>CO1 Use of C language to solve chemistry problems</p> <p>CO2 Ability to apply chemdraw</p> <p>CO3 Ability to use chromatography techniques in research</p>

	<p>CO4 Development of analytical skills</p> <p>CO5 Development in problem solving ability</p>
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MSc Chemistry (2015-2018)

Course	Course Outcome
Organic Chemistry – I (15PGCH11)	<p>CO1Learners get an elaborate knowledge in the various effects operating in organic reactions and in chemical bondings</p> <p>CO2The effect of aromaticity elaborately studied</p> <p>CO3A deep knowledge in the role of stereochemistry in organic reactions is obtained</p> <p>CO4The role of reagents in organic synthesis is explained</p> <p>CO5Understanding the overall organic chemistry</p>
Inorganic Chemistry – I (15PGCH12)	<p>CO1Grasp the deep knowledge on structure of solids</p> <p>CO2Acquire the knowledge on crystal defects and metallic bonding</p> <p>CO3Attain the ability to identify the acidic and basic nature of solutions</p> <p>CO4Understand the nature of ionic bonding theoretically and experimentally</p> <p>CO5Flourish the idea of covalent bonding and mixing of orbitals</p>
Physical Chemistry – I (15PGCH13)	<p>CO1 Constructs phase diagrams for single and multi-component systems</p> <p>CO2Can evaluate thermodynamic quantities that relate to the vapour-liquid or liquid-liquid equilibria.</p> <p>CO3 Students understand the term ‘chemical equilibrium’ through the experiment</p> <p>CO4Students understand the effect of change in concentration on the equilibrium of a reaction</p> <p>CO5 Students understand the relationship between thermodynamic properties</p>

<p>Analytical And Supramolecular Chemistry (15PGCHE11)</p>	<p>CO1 Acquire the knowledge on Analytical techniques CO2 Grasp the idea on applications of metals and non-metals in Living system CO3 Ability to observe the role of metals in medicine CO4 Understand the basic concepts of Supramolecular Chemistry CO5 Got the knowledge on Supramolecular devices and its applications</p>
<p>Organic Chemistry – II (15PGCH21)</p>	<p>CO1 Getting a thorough knowledge of basic of organic chemistry CO2 An in-depth knowledge of electrophilic substitution reaction imparted CO3 A thorough knowledge in organic photochemistry and pericyclic reaction is imparted CO4 A detail knowledge about novel organic name reactions imparted CO5 The backward approach of reaction mechanism from reactant to product is explained using different examples</p>
<p>Inorganic Chemistry – II (15PGCH22)</p>	<p>CO1 Able to compare and contrast the characteristic features of transition and inner transition elements CO2 Acquire the knowledge on theories of coordination complexes CO3 Grasp the idea on kinetics of the complexes CO4 Flourish their knowledge on structural features of inorganic chains, rings and cage compounds CO5 Understand the photochemical behavior of inorganic complexes</p>
<p>Physical Chemistry – II (15PGCH23)</p>	<p>CO1 Able to do the symmetry operations in given molecules CO2 Find the symmetry of any molecule CO3 Assign the point group of any molecules</p>

	<p>CO4 Able to understand the principles of electronic, microwave, Infra-red and Raman spectroscopy and apply this fundamental understanding to deduce the structure of some simple organic compounds.</p> <p>CO5 Able to understand the principles of NMR, PES and Massbauer spectrum</p>
Pharmaceutical Chemistry (15PGCHE21)	<p>CO1 Acquire the knowledge on chemistry of drugs</p> <p>CO2 Understand the role of Pharmaceutical aids in day-to-day life</p> <p>CO3 Observe the cause of various diseases and their treatment</p> <p>CO4 Grasp the idea about pathogenicidal drugs</p> <p>CO5 Obtain the through application of Bio-regulatory drugs</p>
Organic Chemistry – III (15PGCH31)	<p>CO1 The practical application of UV-Visible, IR, Mass studies in the structural elucidation is imparted</p> <p>CO2 The functional group identification in organic chemistry is obtained</p> <p>CO3 A deep knowledge in the novel molecular rearrangement studies are obtained</p> <p>CO4 A complete chemistry profile of steroids is obtained</p> <p>CO5 Application of spectroscopy in chemistry is understood</p>
Inorganic Chemistry – III (15PGCH32)	<p>CO1 Gain the knowledge on organometallic compounds</p> <p>CO2 Apply the idea of catalysis in innovative synthesis</p> <p>CO3 Use the spectroscopic theories and apply their experience in Inorganic synthesis</p> <p>CO4 Elucidate the structure of compounds with the help of spectroscopic studies</p> <p>CO5 Prosper the biological innovations by knowing the role of bio systems</p>
Physical Chemistry – III (15PGCH33)	<p>CO1 Discuss the factors that affect the rate of chemical reactions and determine the rate of a reaction</p> <p>CO2 Determine the rate of formation of products and its relation to the rate of disappearance of reactants</p> <p>CO3 Explain how activation energy affects rate and use the Arrhenius equation to predict a rate law for a reaction</p>

	<p>CO4 Understand the different laws of photochemistry</p> <p>CO5 Understand the behavior of strong and weak electrolytes</p>
<p>Research Methodology (15PGCHE31)</p>	<p>CO1 Grasp the deep knowledge on writing thesis and journal</p> <p>CO2 Attain the ability to identify the errors</p> <p>CO3 Understand the nature of bonding</p> <p>CO4 Understand the basic concepts to identify some compounds</p> <p>CO5 Spectral Analysis of compounds</p>
<p>Emerging Trends In Physical Chemistry (15PGCH41)</p>	<p>CO1 Understand the basic concepts of polymers</p> <p>CO2 Ability to know the molecular weight of different polymers</p> <p>CO3 Acquire the knowledge of nanotechnology</p> <p>CO4 Grasp the idea about applications of nano materials</p> <p>CO5 Acquire the knowledge of application of Quantum</p>
<p>Selected Topics In Chemistry (15PGCH42)</p>	<p>CO1 acknowledge the role of vitamins in living system</p> <p>CO2 grasp the idea on topographical study of organic solid state chemistry</p> <p>CO3 enrich their knowledge on innovations in nanomaterial compounds</p> <p>CO4 appreciate the activity of enzyme action, student praise the role of metals</p> <p>CO5 attain the insight into selected Inorganic compounds</p>

BSc Chemistry (2012-2014)

Course	Course Outcome
<p>Inorganic Chemistry – I (12 UCH 11)</p>	<p>CO1 Students will have a firm foundation in elements of periodic table and periodic properties</p> <p>CO2 Students will understand the types of chemical forces in inorganic compounds</p>

	<p>CO3 Students will be able to explore the importance of alkali and alkaline metals and its significance in the field of energy and biology</p> <p>CO4 Students will gain the understanding of occurrence of elements, separation and purification process etc</p> <p>CO5 Students will be skilled in carryout titrimetric experiments, accurately record and analyzing results</p>
<p>Mathematics – I (Phy&Chem) (12UMTA11)</p>	<p>CO1 To introduce various series and summation</p> <p>CO2 To have deep knowledge of theory of equations and trigonometrically functions</p> <p>CO3 to introduce matrix theory to solve system of equations</p> <p>CO4 to have deep knowledge of integration and applications</p>
<p>Food Chemistry (12 UNM 11)</p>	<p>CO1 Thorough knowledge in food chemistry</p> <p>CO2 Understanding chemical behavior of food</p> <p>CO3 Understanding the biological importance of chemistry</p> <p>CO4 Prevention of taking food with additives and preservatives</p> <p>CO5 Generation of awareness towards healthy food.</p>

<p>Organic chemistry – I (12UCH21)</p>	<p>CO1 Students will have strong foundation in organic fundamentals CO2 explore the preliminary ideas of 3D structures CO3 have broad knowledge in aliphatic systems CO4 know the substituent role in the aromatic reaction systems CO5 know the importance and the uses of Organometallic compounds in the field of organic synthesis</p>
<p>Mathematics – II (Phy&Chem) (12UMTA21)</p>	<p>CO1 To introduce elementary group theory and properties CO2 To an-depth study of differential equations and partial differents equations CO3To introduce double and triple integrals with applications CO4To introduce correlation, regression and applications</p>
<p>Agricultural Chemistry (12UNM21)</p>	<p>CO1 Development of an accurate and useful recommendation for soil application CO2 Planning out specific fertilizers and manures for better yields CO3 Understanding fertilizer system and its benefits CO4 Comprehensive understanding on pesticides and</p>

	<p>optimization of their usage</p> <p>CO5 Understanding water and soil pollution and their prevention</p>
<p>Pharmaceutical chemistry (12USB22)</p>	<p>CO1 Understanding the importance of chemistry in the development and application of therapeutic drugs.</p> <p>CO2 Development in understanding of the physico-chemical properties of drugs.</p> <p>CO3 Obtaining knowledge of chemical structures and nomenclature.</p> <p>CO4. Appreciating the importance of ionisation of drugs with respect to the solubility and efficacy of drugs</p> <p>CO5 Understanding how current drugs were developed and how new scientific techniques will provide future drugs.</p>
<p>Physics – I (12UPH31)</p>	<p>CO1 Enables the learner to understand the fundamental concepts</p> <p>CO1 Principles and development in properties of matter and Heat Thermodynamics</p>
<p>Everyday Chemistry (12 USB 32)</p>	<p>CO1 Understanding the relation between matter and energy</p> <p>CO2 Knowing the importance of binary systems</p> <p>CO3 Development of knowledge in acids and bases</p>

	<p>CO4 Understanding drugs, laxatives and other compounds of everyday application</p> <p>CO5 Gaining knowledge in the energy changes and requirements</p>
<p>Organic chemistry – II (12 UCH 41)</p>	<p>CO1 Student will acquire the nucleophilic and electrophilic mechanistic approach in aliphatic halogens</p> <p>CO2 explore the idea of synthetically important aryl halogen compounds</p> <p>CO3 have the depth knowledge in reaction orientation and uses of hydroxyl and carbonyl compounds</p> <p>CO4 come to know the reaction path way by exploring some naming reactions</p> <p>CO5 understand the importance of active methylene compounds in synthetic chemistry</p>
<p>Thermodynamics & Solid state (12 UCHE 41)</p>	<p>CO1 Complete understanding of principles of thermodynamics</p> <p>CO2 Clear idea about spontaneity and non spontaneity of processes</p> <p>CO3 A new view on processes having dynamics of heat</p>

	<p>CO4 Clear picture about solid state</p> <p>CO5 Understanding regularity in crystals.</p>
<p>Physics – II (12UPH41)</p>	<p>CO1 Students will understand the behavior of electricity through a metal conductor.</p> <p>CO2 The basic components of electronics and their behavior in electric field are discussed</p> <p>CO3 Diodes and their characteristics are explained which will enable students to understand the fundamentals of electronics.</p> <p>CO4 Students will understand the behavior of light through prism and polarization.</p> <p>CO5 Important concepts on relativity and time dilations are explained. Students will understand the relativistic mechanics through this unit.</p>
<p>Material Science (12 USB 41)</p>	<p>CO1 To understand the chemistry of materials using fundamental theories</p> <p>CO2 To learn the superconducting behavior and magnetism in molecular and atomic level</p> <p>CO3 To familiarize with semiconductor devices and energy efficient light emitting diodes</p> <p>CO4 To know the advancement in the field of energy harvesting systems with new materials</p> <p>CO5 To understand the demand and challenge in the development of energy storage system and materials</p>
<p>Physical</p>	<p>CO1 Describe the distribution of velocities for the particles in a</p>

<p>chemistry – I (12 UCH 51)</p>	<p>gas sample and what factors affect this distribution.</p> <p>CO2 List and explain several technological applications of colloids.</p> <p>CO3 Identify the types of intermolecular forces experienced by specific molecules based on their structures</p> <p>CO4 Constructs phase diagrams for single and multi-component systems</p> <p>CO5 Recall how changing the concentration, volume, or temperature of a system at equilibrium affects the equilibrium position.</p>
<p>Inorganic chemistry – III (12 UCH 52)</p>	<p>CO1. Students will understand the theories, nomenclature and isomerism of coordination compounds</p> <p>CO2 Students will gain the ability to find the structure and nature of bonding of inorganic compounds</p> <p>CO3 Students will explore the importance of transition and inner transition elements</p> <p>CO4 Students will get aware of applications of nanomaterials and fundamentals of supramolecular chemistry</p> <p>CO5 Students will enrich their skills in the estimation of metal</p>

	ions by gravimetric method
Organic chemistry – III (12 UCH 53)	<p>CO1 Students will get an exposure in both nitro and amine compounds</p> <p>CO2 To have general idea in petroleum products of condensed systems</p> <p>CO3 have basic knowledge in concerted reactions</p> <p>CO4 generate interest in knowing more synthetically oriented reagents</p> <p>CO5 come to know the importance of spectral techniques in the field of organic synthesis</p>
Physical chemistry – II (12 UCH 54)	<p>CO1 Find the applications and buffer actions of various solutions</p> <p>CO2 Assign the point group of any molecules</p> <p>CO3 understanding the basic principles of wave mechanics</p> <p>CO4 Calculate the stability of molecules.</p> <p>CO5 Can collect, accurately record, organize, interpret and draw</p>

	conclusions from spectral data.
Inorganic Gravimetric Estimations (12 UCH 55)	CO1 to Familiarizes the students with the quantitative estimation of metal ions through precipitation method
Preparation of coordination compounds (12 UCH 56)	CO1 to help the students to develop the reaction strategies involved in the coordination complexes
Preparation of organic compounds (12 UCH 57)	CO1 to understand the various reactive techniques involved in the reaction mechanism
Estimation of organic compounds (12 UCH 58)	CO1 to acquire the skills for the quantitative estimation of organic compounds
Biomolecules (12 UCHE 51)	<p>CO1 acquire the knowledge selective role of carbohydrates in our life systems</p> <p>CO2 know the aromaticity of heterocyclic compounds and the contribution of poly amino acids as building blocks in human system</p> <p>CO3 learn the structural elucidation process in natural products</p> <p>CO4 update the knowledge of functional behaviors of various biomolecules</p> <p>CO5 obtain basic ideas in human metabolism</p>
Physical chemistry – III	CO1 Discuss the factors that affect the rate of chemical reactions

(12 UCH 61)	<p>and determine the rate of a reaction</p> <p>CO2 Predict the quantum yield and types of reaction</p> <p>CO3 Understand the variation of conductance with different factors.</p> <p>CO4 Understand the variation of conductance with different factors.</p> <p>CO5 Identify the differences and similarities of the different types of batteries.</p>
Inorganic chemistry – IV (12 UCH 62)	<p>CO1 To learn the metal-ligand bonding in organometallic compounds and their applications in catalysis and industry</p> <p>CO2 To understand the coordination theories and nature of chemical bonding in coordination compounds</p> <p>CO3 To understand the kinetics and reaction mechanism involved in the formation of coordination compounds</p> <p>CO4 To learn the spectral methods in the analysis of metal complexes</p> <p>CO5 To know about biological functions of coordination complexes, toxicity, excess and deficiency problems of metals in biological systems.</p>
Organic chemistry – IV (12 UCH 63)	<p>CO1 know the chemistry of polymers, dyes and their industrial needs</p> <p>CO2 learn the typical approach of molecules in rearrangements</p> <p>CO3 get the knowledge of writing mechanisms of some name reactions</p> <p>CO4 come to know the importance of analytical tools in</p>

	<p>predicting molecules</p> <p>CO5 come to know the importance of analytical tools in predicting molecules</p>
<p>Qualitative analysis of Organic compounds (12 UCH 64)</p>	<p>CO4 To learn the specific identification of various functional groups</p>
<p>Practical Physical chemistry (12 UCH 65)</p>	<p>To develop the skills on the analysis of physical characteristics of the compounds</p>
<p>Computer applications in chemistry (12 UCHE 61)</p>	<p>CO1 Use of C language to solve chemistry problems</p> <p>CO2 Ability to apply chemdraw software</p> <p>CO3 Ability to use chromatography techniques in research</p> <p>CO4 Development of analytical skills</p> <p>CO5 Development in problem solving ability</p>

MSc Chemistry (2012-2015)

Course	Course Outcome
<p>Inorganic Chemistry – I (12PCH11)</p>	<p>CO1 Grasp the deep knowledge on structure of solids</p> <p>CO2 Acquire the knowledge on crystal defects and metallic bonding</p> <p>CO3 Attain the ability to identify the acidic and basic nature of solutions</p> <p>CO4 Understand the nature of ionic bonding theoretically and experimentally</p> <p>CO5 Flourish the idea of covalent bonding and mixing of orbitals</p>
<p>Organic Chemistry – I (12PCH12)</p>	<p>CO1 Learners get an elaborate knowledge in the various effects operating in organic reactions and in chemical bondings.</p> <p>CO2 The effect of aromaticity elaborately studied</p>

	<p>CO3A deep knowledge in the role of stereochemistry in organic reactions is obtained</p> <p>CO4The role of reagents in organic synthesis is explained</p> <p>CO5Understanding the overall organic chemistry</p>
<p>Physical Chemistry – I (12PCH13)</p>	<p>CO1 Constructs phase diagrams for single and multi-component systems</p> <p>CO2Can evaluate thermodynamic quantities that relate to the vapour-liquid or liquid-liquid equilibria.</p> <p>CO3 Students understand the term ‘chemical equilibrium’ through the experiment</p> <p>CO4Students understand the effect of change in concentration on the equilibrium of a reaction</p> <p>CO5 Students understand the relationship between thermodynamic properties</p>
<p>Analytical And Supramolecular Chemistry (12PCHE11)</p>	<p>CO1 Acquire the knowledge on Analytical techniques</p> <p>CO2Grasp the idea on applications of metals and non-metals in Living system</p> <p>CO3 Ability to observe the role of metals in medicine</p> <p>CO4Understand the basic concepts of Supramolecular Chemistry</p> <p>CO5Got the knowledge on Suprmolecular devices and its applications</p>

<p>Inorganic Chemistry – II (12PCH21)</p>	<p>CO1 Able to compare and contrast the characteristic features of transition and inner transition elements CO2 Acquire the knowledge on theories of coordination complexes CO3 Grasp the idea on kinetics of the complexes CO4 Flourish their knowledge on structural features of inorganic chains, rings and cage compounds CO5 Understand the photochemical behavior of inorganic complexes</p>
<p>Organic Chemistry – II (12PCH22)</p>	<p>CO1 Getting a thorough knowledge of basic of organic chemistry CO2 An in-depth knowledge of electrophilic substitution reaction imparted CO3 A thorough knowledge in organic photochemistry and pericyclic reaction is imparted CO4 A detail knowledge about novel organic name reactions imparted CO5 The backward approach of reaction mechanism from reactant to product is explained using different examples</p>
<p>Physical Chemistry – II (12PCH23)</p>	<p>CO1 Able to do the symmetry operations in given molecules CO2 Find the symmetry of any molecule CO3 Assign the point group of any molecules CO4 Able to understand the principles of electronic, microwave, Infra-red and Raman spectroscopy and apply this fundamental understanding to deduce the structure of some simple organic compounds. CO5 Able to understand the principles of NMR, PES and Mossbauer spectrum</p>
<p>Pharmaceutical Chemistry (12PCH21)</p>	<p>CO1 Acquire the knowledge on chemistry of drugs CO2 Understand the role of Pharmaceutical aids in day-to-day life CO3 Observe the cause of various diseases and their treatment CO4 Grasp the idea about pathogenicidal drugs CO5 Obtain the through application of Bio-regulatory drugs</p>
	<p>CO1 Understanding the composition of the atmosphere CO2 Creation of awareness of the pollution from the industries</p>

<p>Environmental Chemistry (12PCHE21)</p>	<p>CO3 Studying the importance of the organic compounds in everyday life. CO4 understanding of water chemistry CO5 Gain the knowledge od soap and Pesticides</p>
<p>Inorganic Chemistry – III (12PCH31)</p>	<p>CO1 Gain the knowledge on organometallic compounds CO2 Apply the idea of catalysis in innovative synthesis CO3 Use the spectroscopic theories and apply their experience in Inorganic synthesis CO4 Elucidate the structure of compounds with the help of spectroscopic studies CO5 Prosper the biological innovations by knowing the role of bio systems</p>
<p>Organic Chemistry – III (12PCH32)</p>	<p>CO1 The practical application of UV-Visible, IR, Mass studies in the structural elucidation is imparted CO2 The functional group identification in organic chemistry is obtained CO3 A deep knowledge in the novel molecular rearrangement studies are obtained CO4 A complete chemistry profile of steroids is obtained CO5 Application of spectroscopy in chemistry is understood</p>
<p>Physical Chemistry – III (12PCH33)</p>	<p>CO1 Discuss the factors that affect the rate of chemical reactions and determine the rate of a reaction CO2 Determine the rate of formation of products and its relation to the rate of disappearance of reactants CO3 Explain how activation energy affects rate and use the Arrhenius equation to predict a rate law for a reaction CO4 Understand the different laws of photochemistry CO5 Understand the behavior of strong and weak electrolytes</p>
<p>Research Methodology (12PCHE31)</p>	<p>CO1 Grasp the deep knowledge on writing thesis and journal CO2 Attain the ability to identify the errors CO3 Understand the nature of bonding CO4 Understand the basic concepts to identify some compounds CO5 Spectral Analysis of compounds</p>

<p>Selected Topics In Inorganic Chemistry (12PCH41)</p>	<p>CO1 acknowledge the role of vitamins in living system CO2 grasp the idea on topographical study of organic solid state chemistry CO3 enrich their knowledge on innovations in nanomaterial compounds CO4 appreciate the activity of enzyme action, student praise the role of metals CO5 attain the insight into selected Inorganic compounds</p>
<p>Emerging Trends In Physical Chemistry (12PCHE41)</p>	<p>CO1 Understand the basic concepts of polymers CO2 Ability to know the molecular weight of different polymers CO3 Acquire the knowledge of nanotechnology CO4 Grasp the idea about applications of nano materials CO5 Acquire the knowledge of application of Quantum</p>

Program name: BSc Visual Communication

Program Specific Outcomes

PSO 1: Students will be able to conceptualize, design, and produce one or more works in media based on effective principles and practices of media aesthetics for a target audience.

PSO 2: Students who successfully complete the BA in Communication & Media Studies degree program should be rhetorically sophisticated and media fluent by demonstrating:

PSO 3: The ability to read, write, listen, and present in various contexts and for various audiences.

PSO 4: The ability to understand emerging communication and media technologies, and the complex causes and opportunities of that evolution.

Course name and Course code	Course Outcome
HUMAN COMMUNICATION12UVC11	CO1 : Students will comprehend the foundations, process, and practices of writing for and about the media, and demonstrate proficiency in writing in one or more professional
VISUAL LITERACY (practical) 12UVCA11	CO1: Visual Literacy plays a vital role at Elementary Level as students are more attracted towards learning through picture. CO 2: This element involves students understanding how visual information contributes to the meanings created in learning area texts. It includes interpreting still and moving images, graphs, tables, maps and other graphic representations. CO 3 : Understanding and evaluating how images and language work together in distinctive ways in different curriculum areas to present ideas and information in the texts they compose and comprehend. In developing and acting with literacy, students
Painting (Practical) 12UVE11	CO1: The ability to synthesize the use of drawing, two-dimensional design, and color, beginning with basic studies and continuing throughout the degree program toward the development of advanced capabilities. CO 2: Knowledge techniques, and processes sufficient to work from concept to finished product, including knowledge of paints and surfaces. CO 3: The ability to explore the expressive possibilities of various media, and the diverse conceptual modes available to the painter. This may deal with direct painting from nature or with alternative approaches to the making of traditional or innovative two- and, at times, three-dimensional images. CO 4: Progress toward developing a consistent, personal direction and style.
Script Writing (Practical) 12UVCA41	CO1: Demonstrate familiarity with the elements of drama—such as plot, character, diction, theme, and spectacle—as well as an understanding of how these elements combine to create a theatrical experience. CO 2 : Develop a working definition of drama that notes its divergence from other narrative forms. CO 3 : Demonstrate an understanding of the limitations and opportunities.

	<p>CO4: Students will complete full-length scripts that are geared toward a specific budget (whether Hollywood studio fare, student films, or anywhere in between).</p> <p>CO 5: Students will be able to analyze film and television structure at an advanced level.</p>
<p>Basics of photography12 USB 21</p>	<p>CO1 : Knowledge and skills in the use of basic tools, techniques, technologies, and processes sufficient to work from concept to finished product.</p> <p>CO 2 : This involves a mastery of the materials, equipment, and processes of the discipline, including uses of cameras, film, lighting/digital technologies, processing in black and white and in color, printing (wet, hybrid, and digitally), and work with nonsilver materials.</p> <p>CO 3 : Work in these areas continues throughout the degree program</p>
<p>Film studies(Practical) 12 USB 22</p>	<p>CO 1 : Enhance student learning experiences by fostering student relationships with working professionals.</p> <p>CO 2 : Media industries, embedding service learning and/or by developing new opportunities for networking, creative production, and collaboration.</p> <p>CO 3 : Students should be competent in developing critical responses to cinematic work based upon aesthetic or cultural values other than the entertainment model that dominates the mainstream Hollywood distribution system</p>
<p>Photography12 UVC 31</p>	<p>CO 1 :Students will have sufficient mastery of one or more media to complete the technical and formal challenges pertinent to a body of original work.</p> <p>CO 2 : Students will be able to clearly communicate the content and context of their work visually, orally</p> <p>CO 3 : Film Studies students learn to recognize formal elements; they acquire and apply tools (terminology, methods) to carry out rigorous formal analysis of film.</p> <p>CO 4 : students learn to develop general conclusions by synthesizing specific cases and by utilizing film-studies methods.</p>
<p>Advertising Creativity (Theory) 12 UVCA31</p>	<p>CO 1 : As brands invest more heavily in digital media, including the most popular emerging options mobile, digital video and social media marketing.</p> <p>CO 2 : Marketers need to be aware of each platform’s capabilities, including targeting and analytics, and tailor both their campaigns and their expectations.</p> <p>CO 3 : Collaborate in the development of advertising and marketing communications material, in compliance with current Canadian legislation, industry standards and business practices.</p> <p>CO 4: Contribute to planning, implementing, monitoring and evaluating projects by applying the principles of project management.</p>

New wave cinema (Practical) 12 USB 32	<p>CO 1 : Providing students with an understanding of the history, social and cultural roles of media in society, both through courses specifically focused on these topics and by incorporating these themes into other, production-oriented courses.</p> <p>CO 2 : Students should develop a broadly interdisciplinary approach to an understanding of film and its role in society</p> <p>CO 3 : Students should be conversant with the history of international cinema and be able to use that history to provide context for other works they encounter</p> <p>CO 4 : Students should be competent in employing theoretical and disciplinary tools in the analysis and assessment of film and filmic images</p> <p>CO 5 : Students should have basic competence in some format associated with visual media—digital video, digital music, screenwriting, photography, or animation</p>
Mass Communication Theories (Theory)12 UVC 41	<p>CO1: Students will be able to write a variety of mass media products, including news stories, press releases, and advertising copy, following accepted journalistic standards.</p> <p>CO2 : Associated Press style.Students will be able to create and design emerging media products, including blogs, digital audio, digital video, social media, digital photography, and multimedia.</p> <p>CO 3: Write a compelling content that demonstrates proper grammar, well-organized facts, and story-telling techniques for a variety of media. (Communication Fluency)</p>
Elements of Film & Film Appreciation (Practical) 12 UVCE 41	<p>CO1 : Show an understanding of the function of the first draft as a basis for beginning the real work of developing a script through visual media.</p> <p>CO2 : The students will be able to understand the process of reading a film</p> <p>CO3 : The student will learn to explain how film has changed over time as an aesthetic form, as an industry, and as a social institution.</p>
Publication(Practical) 12 USB41	<p>CO 1: Use Adobe InDesign to create personal and/or business publications following current professional and/or industry standards.</p> <p>CO2 : Use critical thinking skills to independently design and create publications.</p>

	<p>CO3 : Develop working knowledge of the principal works, authors, genres, and periods of American and British literatures.</p> <p>CO4 : Understand texts in their cultural and historical contexts.</p>
<p>Radio Production (Practical) 12 UVC 51</p>	<p>CO1 : Students will learn how to create quality audio, video, and/or cinematic work using current and evolving technologies.</p> <p>CO2 : while learning the production process for radio, television, film and online content.</p> <p>CO 3 : Evaluate and critique broadcast and production practices both holistically and in terms of their component parts, namely: audio, video, scripting, production and editing.</p> <p>CO 4 : Write effectively for broadcast media and client-based production, with an emphasis on clarity, story structure and brevity.</p>
<p>Media Laws and Ethics (Theory) 12UVC 52</p>	<p>CO1 : Critically appraise and discuss the relevant literature in written and oral forms.</p> <p>CO2 : Communicate understanding of the relevant ethical and legal issues in written and oral forms.</p> <p>CO 3 : Ethics involves what is right, impartial, fair, just, and responsible. Ethical practice is as important in media as it is in any other walk of life. Ethics based journalism with objectivity, accountability, fairness and truth as the key elements and are vital for responsible media practice.</p>
<p>Art & Visual Aesthetics (Theory) 12 UVC 53</p>	<p>CO1 : The excitement of learning to express oneself in new ways.the opportunity to combine mind and emotion, cognition.</p> <p>CO 2 : Sensory experience, analysis and intuition toward understanding something as a whole</p> <p>CO 3 : Distinguish daily use of aesthetics and aesthetics as a concept.</p> <p>CO 4 : Express the difference between aesthetics and art philosophy.</p>
<p>Basic Visual Journalism (Theory) 12 UVC 54</p>	<p>Co1 : Developing in students an aesthetic understanding of media production and technical proficiency in areas such as video and visual production, writing and digital media development.</p> <p>CO2 : Students will be able to write a variety of mass media products, including news stories, press releases, and advertising copy, following accepted journalistic standards, including Associated</p>

	<p>Press style.</p> <p>CO 3 : Students will be able to create and design emerging media products, including blogs, digital audio, digital video, social media, digital photography, and multimedia.</p> <p>CO 4 : Students will understand and be able to apply relevant case law involving journalism, the First Amendment, and other mass media issues.</p>
<p>Media Research Methods & Applications (Practical) 12 UVC 55</p>	<p>CO 1: Demonstrate knowledge of the key issues, problems and contexts for understanding audiences within Media and Communication Studies.</p> <p>CO 2: Students will understand the underlying philosophical assumptions of, and be able to apply, one or more communication research methods to address a range of media texts and audiences, production and technological practices, and relevant social issues.</p> <p>CO 3 : The ability to understand emerging communication and media technologies, and the complex causes and opportunities of that evolution.</p> <p>CO 4 : The ability to apply communication and media theories to critically analyze real-world issues and employ practical, innovative solutions.</p>
<p>Television Production (Practical) 12 UVCE51</p>	<p>CO1 : As the culmination of the Bachelor of Film and Television degree.</p> <p>CO2: This unit aims to afford students an opportunity to synthesise and integrate skills and research.</p> <p>CO 3: Develop an understanding of the industry as a whole by executing all components of development, pre-production, production and post-production planning in at least two disciplinary areas.</p> <p>CO 4 : Contextualize the social, political, cultural, technological and/or artistic influences upon film and television stories.</p>
<p>Development</p>	<p>CO1 : Students will be able to understand and evaluate key theoretical approaches used in the</p>

<p>Communication (Theory) 12 UVC 61</p>	<p>interdisciplinary field of communication. CO2 : Students will be able to explain major theoretical frameworks, constructs, and concepts for the study of communication and language, summarize the work of central thinkers associated with particular approaches, and begin to evaluate the strengths and weaknesses of their approaches. CO3 : Students will develop knowledge, skills, and judgment around human communication that facilitate their ability to work collaboratively with others. Such skills could include communication competencies such as managing conflict, understanding small group processes, active listening, appropriate self-disclosure, etc. CO 4 : Students will be able to communicate effectively orally and in writing.</p>
<p>Performing Arts (Practical) 12 UVC 62</p>	<p>CO1 : Demonstrate an understanding of the various roles which the arts play in a community or society: to engage; to foster curiosity, imagination and creativity. CO 2 : To entertain; to challenge; to transmit culture, heritage and values; to express ethical dilemmas; to mourn, celebrate, worship/pray; to provide ceremony and ritual; and to lead to career opportunities. CO 3 : Demonstrate introductory levels of performance and production skill and has identified areas of potential aptitude and interest. CO 4 : Formulate career goals, develop educational strategies to reach those goals, and complete a portfolio and/or prepare audition material appropriate for admission to further studies. CO 5 :Interact in a professional manner appropriate to the specific requirements of the performing arts industry.</p>
<p>Study Paper (Practical) 12 UVC 63</p>	<p>CO1 : The Results section of a scientific research paper represents the core findings of a study derived from the methods applied to gather and analyze information. It presents these findings in a logical sequence without bias or interpretation from the author, setting up the reader for later interpretation. CO 2: Evaluation in the Discussion section. A major purpose of the Results section is to break down the data into sentences that show its significance to the research question(s).</p>
<p>Project (Practical) 12 UVC 64</p>	<p>CO1 : Facilitate effective completion of both individual and collaborative interactive media</p>

	<p>projects.</p> <p>CO 2 : Use and evaluate best practices and tools to design and develop dynamic, rich-media content.</p> <p>CO 3 : Conduct and evaluate a thorough assessment of the requirements of a complex interactive media project.</p> <p>CO 4 : Coordinate the development, budgeting, planning and professional presentation of a complex interactive media project.</p>
<p>Internship (Practical) 12 UVCE 65</p>	<p>nds on experience in the field of visual communication.</p>

Program Specific Outcomes

PSO 1: Foundational Knowledge: Students demonstrate knowledge of the field of communication and the meaning and purpose of communication at the individual, group, and societal level. .

PSO 2: Professional Expertise: Students Develop In-Depth and Professional Skills in One of Three Content Emphases (i.e., Public Relations, Speech Communication, or Journalism).

PSO 3: Students with an understanding in Diversity and Cultural Perspectives will have the ability to apply ethical principles from the communication discipline obtained via course work by demonstrating their competency in critically analyzing communication problems from multiple and diverse perspectives.

PSO 4: Graduates of this program work as interactive designers, website developers, motion graphics designers and mobile app designers

Course name and Course code	Course Outcome
Human Communication15UVC 11	CO 1: Students will develop knowledge, skills, and judgment around human communication that facilitate their ability to work collaboratively with others.
Visual Literacy15UVCA11	CO 1: Visual literacy is a set of abilities that enables an individual to effectively find, interpret, evaluate, use, and create images and visual media. CO 2:Visual literacy skills equip a learner to understand and analyze the contextual, cultural, ethical, aesthetic, intellectual, and technical components involved in the production and use of visual materials.
Painting15UNM11	. CO1:An understanding of basic principles of design and tone, concepts, media and formats, and the ability to apply them to a specific aesthetic intent.
Graphic Design & Computer Graphics15UVC 21	Graduates will be able to: Demonstrate fluency in the visual vocabulary and technical skills relevant to graphic design : Demonstrate excellence in typographic practice using text typography, display typography, and grid systems across analog and digital media.
Basics of photography15UVCA21	Understand basic camera operations. Know operating a camera. Know types of film. Demonstrate aperture and shutter speeds.
Film studies15USB 22	Enhance student learning experiences by fostering student relationships with working professionals with media industries, embedding service learning and/or by developing new opportunities for networking, creative production,

	and collaboration.
Photography15UVC 31	Students will have sufficient mastery of one or more media to complete the technical and formal challenges pertinent to a body of original work. Students will be able to clearly communicate the content and context of their work visually, orally and in writing.
Advertising Creativity15UVCA31	This study examines the effect of agency creativity on campaign outcomes as moderated by different levels of market dynamism and competitive intensity.
Mass Communication Theories15UVC 41	Students will be able to write a variety of mass media products, including news stories, press releases, and advertising copy, following accepted journalistic standards, including Associated Press style. Students will be able to create and design emerging media products, including blogs, digital audio, digital video, social media, digital photography, and multimedia. 1. Outcome: Students will understand and be able to apply relevant case law involving journalism, the First Amendment, and other mass media issues.
Elements of Film & Script Writing15UVCA41	<input type="checkbox"/> Demonstrate familiarity with the elements of drama—such as plot, character, diction, theme, and spectacle—as well as an understanding of how these elements combine to create a theatrical experience. <input type="checkbox"/> Develop a working definition of drama that notes its divergence from other narrative forms. <input type="checkbox"/> Demonstrate an understanding of the limitations and opportunities particular to theatre and film.
Web and Interactive Media (Interdisciplinary Course with Computer Science Department) 15UVCE41	Web Design and Interactive Media at Harper College ... to degree: Yes; Potential joboutcomes: Web designer, interactive media specialist.
Publication15USB 41	While specific use of the term may vary among countries, it is usually applied to text, images, or other audio-visual content, including paper (newspapers, magazines, catalogs, etc.). The word publication means the act of publishing ,

	and also refers to any printed copies.
Radio Production 15UVC 51	Students will learn how to create quality audio, video, and/or cinematic work using current and evolving technologies while learning the production process for radio, television, film and online content
Art & Visual Aesthetics15UVC 52	The results of this study serve as a basis for another project, in which we aim to develop a scale to assess aesthetic experiences in the visual arts
Introduction to 2D Animation 15UVC 53	Student Learning Outcomes /Learning Objectives ... 2D Animation I is an intermediate course for tradigital and cut-out animation. An introduction to combining traditional animation procedures in a digital environment.
Basic Visual Journalism15UVC 54	Developing in students an aesthetic understanding of media production and technical proficiency in areas such as video and visual production, writing and digital media development.
Media Research Methods & Applications 15UVC 55	Methods of Research in Media & Communications (including Qualitative & Quantitative Analysis) ... design across the social sciences, with a specific emphasis on their application to media and communications ... Student performance results .
Television Production 15UVCE51	Learning Outcomes . Show proficiency in at least two disciplinary areas as part of a filmmaking team, including: producing/production , management, screenwriting, directing, camera and lighting, editing, audio, art direction, set design, special effects and television studio production .
Development Communication 15UVC 61	
Media Laws and Ethics15UVC 62	It engages with ethical dilemmas that journalists face in their career, in theory and practice. The course also outlines the basic legal principles governing the mediaindustry . It highlights public communication laws and regulations regarding copyright, privacy, defamation, commercial speech and obscenity.
Media Presentation Skills15UVC 63	CO1: The elements of an effective, dynamic presentation (preparing, planning and delivering) CO2: identifying the desired outcomes and how to reach them through persuasion and influence. CO3: Understanding the needs of your audience.
Media Project15UVC 64	CO1: Facilitate effective completion of both individual and collaborative interactive media projects.

	<p>CO2: Use and evaluate best practices and tools to design and develop dynamic, rich-media content.</p> <p>CO3: Conduct and evaluate a thorough assessment of the requirements of a complex interactive media project.</p>
Internship 15UVCE 65	CO1: To have hands on experience in the field of visual communication.

PROGRAM SPECIFIC OUTCOMES

AND COURSE OUTCOMES for VISCOM

2018 – 2019

Program Specific Outcomes

PSO 1: Foundational Knowledge: Students demonstrate knowledge of the field of communication and the meaning and purpose of communication at the individual, group, and societal level. .

PSO 2: Professional Expertise: Students Develop In-Depth and Professional Skills in One of Three Content Emphases (i.e., Public Relations, Speech Communication, or Journalism).

PSO 3: Students with an understanding in Diversity and Cultural Perspectives will have the ability to apply ethical principles from the communication discipline obtained via course work by demonstrating their competency in critically analyzing communication problems from multiple and diverse perspectives.

PSO 4: Graduates of this program work as interactive designers, website developers, motion graphics designers and mobile app designers

Course name and Course code	Course Outcome
Human Communication18UVC 11	CO1. Students will comprehend the foundations, process, and practices of writing for and about the media, and demonstrate proficiency in writing in one or more professional media writing applications.
Visual Literacy & Graphic Design18UVCA11	CO1. Visual Literacy plays a vital role at Elementary Level as students are more attracted towards learning through pictorial study in teaching learning process.
Journalism 18UVC 21	Developing in students an aesthetic understanding of media production and technical proficiency in areas such as video and visual production, writing and digital media development.
Photography18UVCA 21	Students will have sufficient mastery of one or more media to complete the technical and formal challenges pertinent to a body of original work. Students will be able to clearly communicate the content and context of their work visually, orally and in writing.
Basics of photography18UNM21	Understand basic camera operations. Know operating a camera. Know types of film. Demonstrate aperture and shutter speeds.
Screen Play18USB 22	Assessment may include informal responses to reading and study questions; quizzes; evaluation of small and full-group discussion, in-class and out-of-class writing; writing scripts; revising scripts; participation in reading of scripts; creation of one or more “query packets” for submission of original script.
Film Studies 18UVC 31	Enhance student learning experiences by fostering student relationships with working professionals with media industries, embedding service learning and/or by developing new opportunities for networking, creative production, and collaboration.
Development Communication18UVCA31	Students will be able to understand and evaluate key theoretical approaches used in the interdisciplinary field of communication. I.e., students will be able to explain major theoretical frameworks, constructs, and concepts for the study of communication and language, summarize the work of central thinkers associated with particular approaches, and begin to evaluate the strengths and weaknesses of their

	approaches.
Performing Arts18 UVCE31	can demonstrate an understanding of the various roles which the arts play in a community or society: to engage; to foster curiosity, imagination and creativity; to entertain; to challenge; to transmit culture, heritage and values; to express ethical dilemmas; to mourn, celebrate, worship/pray; to provide ceremony and ritual; and to lead to career opportunities
Video Production18USB 32	Demonstrate your ability to integrate both traditional and non-traditional cognitive skills , including analytical inquiry, information literacy, quantitative fluency and communicative fluency.Demonstrate intercultural competence in addressing civic, social, environmental and economic issues.
Art & Visual Aesthetics18UVC 41	The results of this study serve as a basis for another project, in which we aim to develop a scale to assess aesthetic experiences in the visual arts
Television Production18UVCA41	Learning Outcomes . Show proficiency in at least two disciplinary areas as part of a filmmaking team, including: producing/production , management, screenwriting, directing, camera and lighting, editing, audio, art direction, set design, special effects and television studio production .
Web designing18UVCE41	Web Design and Interactive Media at Harper College ... to degree: Yes; Potential job outcomes: Web designer, interactive media specialist .
Online journalism18USB 41	Developing in students an aesthetic understanding of media production and technical proficiency in areas such as video and visual production, writing and digital media development.
Media Culture & Society18UVC51	Contemporary life is permeated by messages produced by the media. These messages come in the form of news broadcasts, public information, commercials, entertainment and fiction, among other things. This course examines how dominant media technologies, i.e.

	broadcasting, print and digital media, are linked to the communication process
Advertising 18UVCA51	This study examines the effect of agency creativity on campaign outcomes as moderated by different levels of market dynamism and competitive intensity.
2D Animation 18UVCE 51	Student Learning Outcomes /Learning Objectives ... 2D Animation I is an intermediate course for tradigital and cut-out animation. An introduction to combining traditional animation procedures in a digital environment.
Digital Audio (1T +2P + 1FV) 18UVC E52	The frequency at which it vibrates depends on its mass, its tension, and its length. These traits stay fairly constant over the course of a note, so it has one fundamental frequency at which it vibrates. However, other modes of vibration are still possible.
Mass Communication Theories18UVC52	Students will be able to write a variety of mass media products, including news stories, press releases, and advertising copy, following accepted journalistic standards, including Associated Press style. Students will be able to create and design emerging media products, including blogs, digital audio, digital video, social media, digital photography, and multimedia.Outcome: Students will understand and be able to apply relevant case law involving journalism, the First Amendment, and other mass media issues.
Media Research Methods18UVC53	Methods of Research in Media & Communications (including Qualitative & Quantitative Analysis) ... design across the social sciences, with a specific emphasis on their application to media and communications ... Student performance results .
Media Laws and Ethics18UVC 61	It engages with ethical dilemmas that journalists face in their career, in theory and practice. The course also outlines the basic legal principles governing the mediaindustry . It highlights public communication laws and regulations regarding copyright, privacy, defamation, commercial speech and obscenity.
Radio Production 18UVC E61	Students will learn how to create quality audio, video, and/or cinematic

	work using current and evolving technologies while learning the production process for radio, television, film and online content
Media Presentation Skills 18UVC 62	The elements of an effective, dynamic presentation (preparing, planning and delivering) Identifying the desired outcomes and how to reach them through persuasion and influence. Understanding the needs of your audience.
Media Project 18UVC 63	Facilitate effective completion of both individual and collaborative interactive media projects. Use and evaluate best practices and tools to design and develop dynamic, rich-media content. Conduct and evaluate a thorough assessment of the requirements of a complex interactive media project.
Internship 18UVC 64	To have hands on experience in the field of visual communication.
Campus News Cast (Field Work) 18 UVCA61	The foundation practicum, or generalist practicum, puts emphasis on developing competence as a professional generalist social worker. It requires a minimum of 420 hours and is completed by students admitted at the foundation level. Students spend an average of 15 hours per week during the fall and spring semesters in this practicum.

Course	Course Outcome
Programming in C- 18UCS11	<p>CO1:Solve the given problem using the syntactical structures of C language</p> <p>CO2:Design an algorithmic solution for a given problem in C Language</p> <p>CO3:Implement various features of C Language</p> <p>CO4:Use the programming skill to debug and run the programs efficiently.</p>

	CO5:Gain overall knowledge about the subject
Practical in C- 18UCS12	CO1:Solve the given problem using the syntactical structures of C language CO2:Design an algorithmic solution for a given problem in C Language CO3:Implement various features of C Language CO4:Use the programming skill to debug and run the programs efficiently. CO5:Gain overall knowledge about the subject
Digital Electronics- 18UCSA11	CO1: Learn the principles of digital system CO2: Know about the digital devices CO3: Design digital arithmetic circuits CO4 Gain knowledge about CPU of the computer CO5: Gain overall knowledge about the subject
PageMaker- 18UNM11	CO1:To know about the desktop publishing
Object oriented programming with C++ -18UCS21	CO1. Solving the given problem using the syntactical structures of C++ language CO2. Designing an algorithmic solution for a given problem in C++ Language CO3. Implementing various object oriented concepts

	<p>CO4. Using the programming skill to debug and run the programs efficiently.</p> <p>CO5. Gain overall knowledge about the subject</p>
<p>Practical Object Oriented Programming with C++ -18UCS22</p>	<p>CO1: Solving the given problem using the syntactical structures of C++ language</p> <p>CO2: Designing an algorithmic solution for a given problem in C++ Language</p> <p>CO3: Implementing various object oriented concepts</p> <p>CO4: Using the programming skill to debug and run the programs efficiently.</p> <p>CO5: Gain overall knowledge about the subject</p>
<p>Discrete Mathematics-18UCSA21</p>	<p>CO1:Learn the concepts of set theory</p> <p>CO2:Learn about Algorithms and recursive functions</p> <p>CO3: Gain knowledge about logics and inferences</p> <p>CO4: Gain the concept of graph theory</p> <p>CO5: Update knowledge to learn any advanced topic of discrete mathematics</p>
<p>Programming in java-18UCS31</p>	<p>CO1. Solving the given problem using the syntactical structures of JAVA language</p> <p>CO2. Designing an algorithmic solution for a given problem in JAVA language</p> <p>CO3. Implementing various object oriented concepts</p> <p>CO4. Using the programming skill to debug and run the programs efficiently.</p> <p>CO5. Update knowledge to learn any advanced topics in JAVA programming</p>
<p>Practical – programming in java-18UCS33</p>	<p>CO1. Solving the given problem using the syntactical structures of JAVA language</p> <p>CO2. Designing an algorithmic solution for a given problem in JAVA language</p> <p>CO3. Implementing various object oriented concepts</p> <p>CO4. Using the programming skill to debug and run the programs efficiently.</p> <p>CO5. Update knowledge to learn any advanced topics in JAVA programming</p>

<p>Data Structure and Algorithms- 18UCS32</p>	<p>CO 1. Learn the concepts of data structures such as stack, Queues and Linked list. CO 2. Have general understanding of the network structures through graph. CO 3. Make the students to understand the basic algorithms for searching CO 4. Make the students to understand the basic algorithms for sorting. CO 5. Update knowledge to learn any advanced topics in data structure and algorithm</p>
<p>Practical-Data Structure and Algorithm18UCS34</p>	<p>CO 1. Learn the concepts of data structures such as stack, Queues and Linked list. CO 2. Have general understanding of the network structures through graph. CO 3. Make the students to understand the basic algorithms for searching CO 4. Make the students to understand the basic algorithms for sorting. CO 5. Update knowledge to learn any advanced topics in data structure and algorithm</p>
<p>Microprocessor and Assembly Language- 85UCSA41</p>	<p>CO1. Learn about 8085 architecture. CO 2. Develop programming skill in assembly language. CO 3. Learn about advanced microprocessors. CO 4. Learn about various interfaces. CO 5. Gain overall knowledge about the subject</p>
<p>Practical Assembly Language Programming- 18UCSA42</p>	<p>CO 1. Learn about 8085 architecture. CO2. Develop programming skill in assembly language. CO 3. Learn about advanced microprocessors. CO 4. Learn about various interfaces. CO 5. Gain overall knowledge</p>

	about the subject
RDBMS Concepts and Applications-18UCS42	<p>CO 1. Have the knowledge about the fundamentals of RDBMS</p> <p>CO 2. Design database using ER diagram and normal forms</p> <p>CO 3. Create and manipulate relational database using Oracle</p> <p>CO 4. Use SQL queries in a procedural language, PL/SQL</p> <p>5. Update knowledge to learn any future advanced version of language</p>
Practical –Oracle-18UCS44	<p>CO 1. Have the knowledge about the fundamentals of RDBMS</p> <p>CO 2. Design database using ER diagram and normal forms</p> <p>CO 3. Create and manipulate relational database using Oracle</p> <p>CO 4. Use SQL queries in a procedural language, PL/SQL</p> <p>CO 5. Update knowledge to learn any future advanced version of language</p>
Operations Research-18UCSE41	<p>CO 1. Learn the models and phases of Operation Research</p> <p>CO 2. Solve LPP by graphical method, Transshipment Problems and Assignment problems</p> <p>CO 3. Find the optimal solutions for Games and decision trees</p> <p>CO 4. Identify the Critical Path and to determine the Project completion time</p> <p>CO 5. Develop the problem solving skills in Operations Research</p>
Operating System-18UCS52	<p>CO 1. Learn the basic concepts of operating system.</p> <p>CO 2. Learn about process concepts and scheduling.</p> <p>CO 3. Learn about deadlocks in operating system</p> <p>CO 4. Learn about file systems.</p>
Programming in ASP Dot NET-18UCS51	<p>CO 1. Write simple programs with VB.NET using server controls</p> <p>CO 2. Write programs using advanced features of VB.NET</p> <p>CO 3. Develop simple web pages using ASP.Net</p> <p>CO 4. Develop web pages using various validation control</p> <p>CO 5. Develop web services and composite controls</p>

<p>Practical Programming in ASP Dot Net-18UCS55</p>	<p>CO 1. Write simple programs with VB.NET using server controls CO 2. Write programs using advanced features of VB.NET CO 3. Develop simple web pages using ASP.Net CO 4. Develop web pages using various validation control CO 5. Develop web services and composite controls</p>
<p>Practical XML and HTML-18UCS45</p>	<p>CO1. Develop the skill & knowledge of Web page design. CO2. Learn theoretical knowledge about HTML and XML. CO3. Practical experience in designing Web pages. CO4. Learn the important concepts of XML. CO5. Gain overall knowledge about the subject</p>
<p>Practical PHP and MYSQL-18UCS58</p>	<p>CO1:To impart theoretical knowledge about PHP and MySQL CO2:To develop programming skills using PHP and MySQL</p>
<p>Computer Graphics and Multimedia-18UCS62</p>	<p>CO1. Draw line, circle, Ellipse using Bresenham's Algorithms CO2. Learn about how to translate, rotate and scale objects. CO3. Learn to clip the objects. CO4. Draw images using Flash software. CO5. Learn Animation using Flash.</p>
<p>Practical Computer Graphics and Multimedia-</p>	<p>CO1. Draw line, circle, Ellipse using Bresenham's Algorithms</p>

18UCS64	<p>CO2. Learn about how to translate, rotate and scale objects.</p> <p>CO3. Learn to clip the objects.</p> <p>CO4. Draw images using Flash software.</p> <p>CO5. Learn Animation using Flash.</p>
<p>Practical UNIX and Shell Programming- 18UCS56</p>	<p>CO 1. Learn how to implement UNIX commands in C language.</p> <p>CO 2. Write simple shell programs.</p> <p>CO 3. Write shell programs using advanced commands of UNIX.</p> <p>CO 4. Learn about the positional parameters.</p> <p>CO 5. Update knowledge to learn any future advanced version of language</p>
<p>Data Communication and Computer Networks- 18UCS61</p>	<p>CO 1. Trace the flow of information from one node to another node in the network.</p> <p>CO 2. Learn the functionalities at each layer for different applications.</p> <p>CO 3. Evaluate the protocols in network layer with noisy and noiseless channels.</p> <p>CO4. Identify the functions of key management</p> <p>CO5. Gain overall knowledge about the subject</p>
<p>Web Designing- 18UCS43</p>	<p>CO1. Develop the skill & knowledge of Web page design.</p> <p>CO2. Learn theoretical knowledge about HTML and XML.</p> <p>CO3. Practical experience in designing Web pages.</p> <p>CO4. Learn the important concepts of XML.</p> <p>CO 5. Gain overall knowledge about the subject</p>

PHP and MySQL- 18UCS54	CO 1:To impart theoretical knowledge about PHP and MySQL CO2:To develop programming skills using PHP and MySQL
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Program Name: BA Economics

Program Specific outcomes for UG Economics:

The stakeholders of this programme is expected to acquire the skill and knowledge in the following areas

1. **Critical Thinking Skills:** Students are expected to understand and appreciate the relevance of economics theories and relate it with the real world situations and are able to evaluate economic policies of the government.
2. **Quantitative Reasoning Skills:** Students are expected to understand and use different statistical tools, interpret statistical results and conduct appropriate statistical analysis of the data in hand.
3. **Problem-Solving Skills:** Students are expected to be able to solve problems that have clear solutions and to address problems that do not have clear answers and explain conditions under which these solutions may be correct.
4. **Communication Skills:** Students are expected to communicate in written, oral and graphical form about specific issues and develop issue based arguments of the economy supported by evidence.

Program Name: MA Economics

PG Programme is **aimed at** to prepare the stakeholders to excel in the job and **academic oriented Exams** and interviews when they leave the institution. Periodical paper presentations and Industrial visits tune them in achieving this end.

Programme specific outcomes:

After completing this programme, the students will be able to acquire in-depth knowledge in several areas of economics regarding the utilization and allocation of resources such as land, labour, capital and entrepreneur. Students would be able to work both independently and as a team in complex and unpredictable situations requiring new solutions. Also students would be able to use theoretical and empirical methods to analyse economic problems and to plan and carry out a research project which involves the use of different statistical tools and methodologies.

It also enables students to be self employed and equip them to compete in the labour market including competitive examinations of both state and centre with professionalism and ethics.

Course Name	Course Code	Course outcome
Microeconomics I	18 UEC 11	CO1 Student are able to relate themselves with real life situation of market forces and Market structure
Mathematics	18 UECA 11	CO1 Will be able to communicate mathematical ideas using numerical,

		<p>graphical and symbolic representations.</p> <p>CO2 Helps them to become comfortable for using mathematical tools in Economic Theories and models when studying mathematical economics in their next semester.</p> <p>CO3. Students are able to successfully use mathematics in economics and business applications.</p> <p>CO4. Students would be able to acquire the rudiments of mathematics which helps them to easily handle mathematical tools in Economics.</p> <p>CO5. This course provides a solid grounding in mathematics sufficient to prepare graduates for joining higher degrees in business and economics.</p>
History of Tourism	18 UNM 11	<p>CO1. Impart knowledge about the History of Tourism.</p> <p>CO2. make the students aware of the importance of Tourism.</p> <p>CO3. examine the cultural and social background of Tourism.</p>
Economics for The Non- Economists	18 UNM 11	<p>CO1. As the course is offered as a non-major elective to non-economic students, they would be given a basic understanding of their day to day economics.</p> <p>CO2. The course helps them to relate the taught economic concepts and some laws and theories with their main subject matter of degrees.</p> <p>CO3. They become aware of how an economic activity is the centre of all the economic nature and face of other subjects whether art or science.</p>
Microeconomics II	18 UEC 21	<p>CO1. The students would be made aware of different theories, market situations and its functioning mechanisms.</p>
Mathematical Economics	18 UECA 21	<p>CO1. Set up an economic problem using mathematical notation.</p> <p>CO2. Solve an economic problem using mathematics.</p> <p>CO3. Students would be able to form meaningful, testable propositions about wide ranging and complex subjects which could less easily be expressed</p>

		<p>informally.</p> <p>CO4. Apply mathematical tools to derive and solve some economic theories and models.</p> <p>CO5. Provides students an understanding of the working of some mathematical tools in studying some economic theories and models.</p>
Travel and Tourism	18 UNM 21	<p>CO1. make the students aware of the transportation and accommodation facilities in India.</p> <p>CO2. apply their knowledge and skills acquired to develop the Tourism Department.</p> <p>CO3. make the students to develop skill in guiding the Tourists.</p>
Economics of Insurance	18 UNM 21	<p>CO1. With this course, students are expected to learn the functioning of Insurance Sector in the economy. This paper is expected to develop a skill among the students to understand the structure of Insurance Sector and its role played by the sector in the economy too.</p> <p>CO2. This paper will impart a skill among the students which will help them in understanding the problems of this sector and learn the ways and means to overcome these problems.</p> <p>CO3. The students are expected to acquire the skill that will take rational decisions in issues related to Insurance sector.</p>
Human Development	18 USB 22	<p>CO1. Learning course on human development helps students to acquire knowledge on the factors that practically affect the overall development of individual human beings in a given socio. Political and economic environment.</p> <p>CO2. Students become familiar and acquainted with indicators and</p>

		<p>measurement of human development and that enable them to carry out all their professional activities to serve better for the society.</p> <p>CO3. This course would help the students to conceptualize their other subjects of graduation from the development perspective of human beings.</p>
Macroeconomics I	18 UEC 31	<p>CO1. Understand the macroeconomic variables such as savings, investment, employment, rate of interest and their roles in the economy.</p> <p>CO2. Know the causes and consequences of macro level problems viz. unemployment, price and consumption Functions etc.</p> <p>CO3. Develop a critical perspective of the functioning of economies.</p>
History of Indian National Movement	18 UECA 31	<p>CO1. Get the noble values cherished during the days of Indian National Movement.</p> <p>CO2. Appreciate and respect the sacrifices of Indian nationalists and inculcate their feelings of patriotism.</p> <p>CO3. Understand significant trends, movements, and events in Indian history.</p> <p>CO4. Look at other societies in a comparative context and to look at one's own society in the context of other societies.</p> <p>CO5. Recognize the influence of global forces and identify their connections to local and national developments.</p>
Data Collection and Presentation	18 USB 32	<p>CO1. On successful completion of the course, the student will be able to know what "data" are, collecting it,</p> <p>CO2. to present the data with help of Diagrams and Graphs.</p>
Macroeconomics II	18 UEC 41	<p>CO1. understand some of the macroeconomic Concepts like Multiplier, Accelerator and Super Multiplier etc.,</p> <p>CO2. understand the theories of trade cycle and income stabilization policies</p> <p>CO3. know the causes and consequences of macro level problems relating to Macro Economic Policy.</p>
History of Contemporary India	18 UECA 42	<p>CO1. Acquire knowledge about the History of post Colonial India.</p> <p>CO2. Be aware of the foreign policies of India.</p>

since 1947		CO3. Acquire knowledge and skills to write competitive examinations. CO4. Think and write about political, social and economic issues of contemporary India.
Basics of Computer in Economics/Computer application in Economics	18 UECE 41	CO1. Student would be able to access, download and use electronic databases for all their learning of the subject matter of economics CO2. They are able to use standard operational software like word, excel and power point of MS Office. CO3. They are conversant with the measuring of some arithmetic and statistical values and inference for their subject.
Economics for Competitive Examinations/Practical Economics	18 USB 41	CO1. The students are expected to acquire some basic ideas about different branches of Economics which enables them to get equipped to face different competitive examinations.
Labour Economics	18 UEC 51	CO1. Students could understand the subject matter of Labour Economics. CO2. Students would acquire some knowledge and skill on observing and establishing the interaction between theoretical and empirical modeling of issues of labour.
Fiscal Economics	18 UEC 52	CO1. The course will help to understand the sound theoretical frame work of the subject of the Public Finance. CO2. The students will acquaint with a good understanding of the financial structure of the economy. CO3. Students are expected to develop knowledge of the broad frame work of the Revenue and expenditure of the Centre, State and Local bodies. CO4. It is expected to develop the practical skills in the students in

		<p>understanding the functioning of the entire economy as a whole.</p> <p>CO5. The students are expected to acquire skills that will help them to take rational decisions in issued related to finance in the economy.</p>
Indian Economy	18 UEC 53	<p>CO1. At the end of the course the students would be more familiar with the basics of (a) development experiences of India with respect to Manufacturing and Agriculture sectors (b) basic demographic features (c) Poverty and Unemployment and (d) Social sector.</p>
History of Economic Thought	18 UEC 54	<p>CO1. Understand key models and concepts of the history of economic thought</p> <p>CO2. Understand scholarly articles concerned the history of economic thought</p> <p>CO3. Produce simple appreciations of the history of economic thought texts</p> <p>CO4. Have a historical consciousness of economic ideas and its evolution in relating to its environment.</p>
Money & Banking	18 UEC 55	<p>CO1. understand the importance of money, evolutions and its functioning mechanism</p> <p>CO2. understand the functioning of money and capital markets</p>
Statistics - I	18 UECE 51	<p>CO1. To classify primary and secondary data.</p> <p>CO2. To collect data by applying different methods of data collection.</p> <p>CO3. To present the data in graphs and diagram.</p> <p>CO4. To understand how sampling being done.</p> <p>CO5. To identify the central value and its reliability of given data.</p>

International Economics	18 UEC 61	CO1. comprehend the basic concepts of international trade CO2. apply the concepts and principles in the Indian context CO3. appreciate the need for international co-operation.
Political Economy	18 UEC 62	CO1. Students could be able to explore changes in the organisation of production, labour market institutions and corporate structure. CO2. Students would be able to understand the consequences of globalization, especially of financial flows, for the role of the state, economic performance, environment, human welfare and development. CO3. Students would be able to get an understanding of how global capitalism has its strong role in changing the political economy of developing economies CO4. Students would be able to understand the political background of the role of state on framing and implementing Economic policies CO5. Stakeholders would be able to grasp the influence of globalisation on Indian Political Economy.
Development Economics	18 UEC 63	CO1. familiar with the concepts of growth and development CO2. Have some very basic theories of economic growth and CO3. To have some of the experiences of Indian growth strategies adopted.
Statistics II	18 UECE 61	CO1. Helps to find out the relationship between variables and its interpretation. CO2. Students would acquire the knowledge to find out future values when present values are given.

		<p>CO3. To find out various components of Time series and its usefulness.</p> <p>CO4. Able to construct Index number and are able to calculate the changes in price and cost of living.</p> <p>CO5. Helps them understand probability and its importance.</p>
Project	18 UEC 64	<p>CO1. To enable the students to locate local as well national economic problems.</p> <p>CO2. To gather data on the economic problems and to analyse them</p> <p>CO3. To find solution to the economic issues</p>

Advanced Microeconomics – I	18 PEC11	<p>CO1. Students would have conceptual clarity on consumer and market equilibrium.</p> <p>CO2. Students would be able to use microeconomics concepts in solving simple economic problems.</p>
Advanced Macroeconomics – I	18 PEC12	<p>CO1. Students would know the basics of national income accounting.</p> <p>CO2. Students would know macroeconomics theories and policies.</p> <p>CO3. Students would be able appreciate the paradox between growth and employment.</p>
Mathematical Methods for Economics	18 PEC13	<p>CO1. Students are expected to know about various mathematical concepts which are essential for modern economic theories.</p> <p>CO2. Students would know how to apply the mathematical tools for their research purpose and</p> <p>CO3. It is expected to enable the students in preparing different competitive</p>

		examinations.
Monetary Economics	18 PEC14	CO1. Students would know price behaviour and its cyclical nature. CO2. Students would made aware of issues related to consumption, saving, investment and employment.
Fiscal Economics	18 PECE 11	CO1. Students would be able to know the role of government in economic development. CO2. Students would be able to know their responsibilities in protecting public utilities. CO3. Students will be able to know the system of taxation, public expenditure and budgeting. CO4. Student would be able to appreciate honest tax payers.
Advanced Microeconomics – II	18 PEC 21	CO1. Students would know theories related to firms and distributions. CO2. Students would know welfare economics and general equilibrium in closed and open economic system. CO3. Students would be equipped with the analytical skills in the economic behavior of individuals under certainly and uncertainty.
Advanced Macroeconomics – II	18 PEC 22	CO1. Students would know the functioning of the economy along with its fluctuations.
Statistical Methods	18 PEC 23	CO1. Students would acquire the knowledge in statistical concepts which are essential for modern economic theories CO2. Students would be able to apply the statistical tools for their research purpose.
International Economics	18 PEC24	CO1. Students would be made aware of basic international trade theories. CO2. Students would know the difference between customs union and trade blocs.

		CO3. Students would be able to appreciate the importance of foreign capital.
Labour Economics	18PECE 21	CO1. Students would Know about the situation of labour market in India. It enables the students to understand wage determination and its structure in India.
Development Economics	18 PEC 31	CO1. Students would be able to differentiate economic growth from economic development. CO2. Students would be able to appreciate the relevance and significance of different growth theories.
Welfare Economics	18 PEC 32	CO1. Students are expected to know the different ways to measure welfare changes for individuals. CO2. Students are expected to know general equilibrium analysis. CO3. Students will be able to be aware of Pareto optimality, efficiency, and equity.
Research Methodology	18 PEC 33	CO1. It would enable the students to understand the methodology of economic research and social research. CO2. It would provide an environment and creating aptitude towards research. CO3. It would make the students to understand the current economic problems.
Economics for NET/SET	18 PEC 34	CO1. Students would have clarity on different economics concepts. CO2. Students would be familiarized with NET/SET and different competitive examinations.
Quantitative methods for economic analysis	18 PECE 31	CO1. Students are expected to develop skill in mathematical techniques that are needed for economics.

		CO2. Students will be able to relate theoretical framework with quantitative method.
Indian Economy	18 PEC 41	CO1. Students would appreciate the growth stagnation debate. CO2. Students would be made aware of Indian economy problems related to agriculture and industry. Co3. Students would be made known of different planting strategies in India.
Environmental Economics	18 PEC 42	CO1. Get an idea of the impact of environmental degradation on the economy. CO2. Disseminate the need for protection and conservation of natural resources. CO3. Analyse the importance of good environment and its economic value.
Computer Application in Economics	18 PEC 43	CO1. Student would be able to access, download and use electronic databases for all their learning of the subject matter of economics CO2. They are able to use standard operational software like word, excel and power point of MS Office. CO3. They are conversant with the measuring of some arithmetic and statistical values and inference for their subject.
Econometrics	18 PECE 41	CO1. To get acquainted with the tools of Econometrics for applied research in Economics; and CO2. To impart the knowledge of econometric techniques for better understanding of the methods in Economics. CO3. To help students understand and appreciate the potential of the subject for application
Project	18 PEC 45	CO1. To enable the students to locate local as well national economic problems.

		CO2. To gather data on the economic problems and to analyse them CO3. To find solution to the economic issues
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Course name	Course code	Course outcome
Microeconomics I	15 UEC 11	CO1. Students would acquire basic knowledge about rational behaviour of an individual as consumer, producer and seller. CO2. Students would gain clarification on microeconomic concepts and theories.
Mathematics I	15 UECA 11	CO1. Students would be equip in basic mathematics in order to pursue higher education.
Economics for The Non- Economists	15 UNM 11	CO1. Students would appreciate the relevance of economics and its subject matter. CO2. Would acquire knowledge on the relevance of the market forces.
Microeconomics II	15 UEC 21	CO1. Students would acquire ideas related to factor markets and factor pricing. CO2. Students would be able to acquire knowledge on factor pricing and product pricing.
Mathematics II	15 UCA 21	CO1. Students would get prepared to study their basic economics subjects with the language of mathematics.
Practical Economics	15 UNM 11	CO1. Student would know to compute elasticities and its applications. CO2. Understand the basic of union budget. CO3. Understand the basics of balance of trade and balance of payment.
Human Development	15 USB 32	CO1. Students should made aware of the awareness and skill to analyse the society from the human development perspective.
International Economics	15 UEC 31	CO1. Students would acquire knowledge and skill that would help them to take rational decision in issues related to international economics.
History of Indian Freedom Movement	15 UECA 31	CO1. Students would be aware of Indian freedom movement. CO2. Students would be able to appreciate and respect the national leaders.

Data Collection and Presentation	15 USB 32	CO1. Students would know what data are, methods of collecting it and present them in diagram.
Labour Economics	15 UEC 41	CO1. Students would know the concept of labour and its importance. CO2. Students would know different welfare measures of India.
Indian Constitution	15 UECA 42	CO1. Students would know the basics of Indian constitutions. CO2. Students would get familiarised with competitive exams.
Statistics – I	15 UECE 41	CO1. Students would be familiarised with various statistical tools. CO2. Students would know to use different tools and solve practical problems. CO3. Students would get familiarised with competitive exams.
Economics of Insurance	15 USB 41	CO1. Students would be made aware of risk and uncertainty.
Macroeconomics I	18 UEC 31	CO1. Students would know the importance of macroeconomic policies. CO2. Students would be familiarised with basic macroeconomic concepts. CO3. Students would know various macroeconomic theories.
Fiscal Economics	15 UEC 52	CO1. Students would know the basics of public revenue and its expenditure. CO2. Students would know the basic concepts involved in union budget.
Indian Economic Development	15 UEC 53	CO1. Students would have the knowledge on the India's natural resource base. CO2. Would be familiarised on demographic features of India. CO3. Students would appreciate issues related to poverty and unemployment. CO4. Students would made aware of agricultural and industrial issues.
History of Economic Thought	15 UEC 54	CO1. Students will have the understanding of the evolution of modern economic thoughts. CO2. Student will be able to know the future economic trend.
Money & Banking	15 UEC 55	CO1. understand the importance of money, evolutions and its functioning mechanism CO2. understand the functioning of money and capital markets
Statistics II	15 UECE 51	CO1. Will have good knowledge on various statistical tools. CO2. Make use of the tool for solving practical problems.

Macroeconomics II	15 UEC 61	CO1. Students will know the importance of macroeconomic policies. CO2. Students will know the basic macroeconomics theories.
Entrepreneurial Development	15 UEC 62	CO1. Students will have good knowledge on entrepreneurial skill. CO2. Good knowledge about the relevance of this subject in the modern world.
Development Economics	15 UEC 63	CO1. familiar with the concepts of growth and development CO2. Have some very basic theories of economic growth. CO3. To have some of the experiences of India with respect to five year planning.
Basics of Computer in Economics/Computer application in Economics	15 UEC 64	CO1. Students will be made computer literate in matters related to everyday usage of computer.
Project	15 UECE 61	CO1. To enable the students to locate local as well national economic problems. CO2. To gather data on the economic problems and to analyse them CO3. To find solution to the economic issues

Advanced Microeconomics - I	15 PEC11	CO1. Students would have conceptual clarity on consumer and market equilibrium. CO2. Students would be able to use microeconomics concepts in solving simple economic problems.
Advanced Macroeconomics - I	15 PEC12	CO1. Students would know the basics of national income accounting. CO2. Students would know macroeconomics theories and policies. CO3. Students would be able appreciate the paradox between growth and employment.
Mathematical Methods	15 PEC13	CO1. Students are expected to know about various mathematical concepts which are essential for modern economic theories. CO2. Students would know how to apply the mathematical tools for their research purpose and

		CO3. It is expected to enable the students in preparing different competitive examinations.
Monetary Economics	15 PEC14	CO1. Students would know price behaviour and its cyclical nature. CO2. Students would made aware of issues related to consumption, saving, investment and employment.
Marketing Management	15 PECE 11	CO1. Students would acquire analytical skills on the behavior of individuals firms and markets. CO2. Students would know various pricing methods. CO3. It enables the students to know about the various media of advertisement and helps to increase the sale proceeds.
Advanced Microeconomics - II	15 PEC 21	CO1. Students would know theories related to firms and distributions. CO2. Students would know welfare economics and general equilibrium in closed and open economic system. CO3. Students would be equipped with the analytical skills in the economic behavior of individuals under certainly and uncertainty.
Advanced Macroeconomics - II	15 PEC 21	CO1. Students would know the functioning of the economy along with its fluctuations.
Statistical Methods	15 PEC 23	CO1. Students would acquire the knowledge in statistical concepts which are essential for modern economic theories CO2. Students would be able to apply the statistical tools for their research purpose.
International Economics	15 PEC24	CO1. Students would be made aware of basic international trade theories. CO2. Students would know the difference between customs union and trade blocs. CO3. Students would be able to appreciate the importance of foreign capital.

Labour Economics	18PECE 21	CO1. Students would Know about the situation of labour market in India. It enables the students to understand wage determination and its structure in India.
Development Economics	15PEC31	CO1. Students would be able to differentiate economic growth from economic development. CO2. Students would be able to appreciate the relevance and significance of different growth theories.
Fiscal Economics	15 PEC 32	CO1. Students would be able to know the role of government in economic development. CO2. Students would be able to know their responsibilities in protecting public utilities. CO3. Students will be able to know the system of taxation, public expenditure and budgeting. CO4. Student would be able to appreciate honest tax payers.
Research Methodology	15 PEC 33	CO1. It would enable the students to understand the methodology of economic research and social research. CO2. It would provide an environment and creating aptitude towards research. CO3. It would make the students to understand the current economic problems.
Economics for NET/SET	15 PEC 34	CO1. Students would have clarity on different economics concepts. CO2. Students would be familiarized with NET/SET and different competitive examinations.
Principles of Management	15PECE31	CO1. Students would appreciate core management principles. CO2. Students would be made aware of different management theories in

		solving management related problems.
Indian Economy	15 PECE 41	CO1. Students would appreciate the growth stagnation debate. CO2. Students would be made aware of Indian economy problems related to agriculture and industry. Co3. Students would be made known of different planting strategies in India.
Environmental Economics	15 PEC 42	CO1. Get an idea of the impact of environmental degradation on the economy. CO2. Disseminate the need for protection and conservation of natural resources. CO3. Analyse the importance of good environment and its economic value.
Computer Application in Economics	15 PEC 43	CO1. Student would be able to access, download and use electronic databases for all their learning of the subject matter of economics CO2. They are able to use standard operational software like word, excel and power point of MS Office. CO3. They are conversant with the measuring of some arithmetic and statistical values and inference for their subject.
Portfolio Management	15 PECE 41	CO1. To enable students to appreciate the use of finance theory in investment management. CO2. To provide a basis for the measurement and analysis of the risk of financial investments. CO3. Understand the implications of theoretical and empirical research in asset pricing for real-world investment strategies

Project	15 PEC 44	<p>CO1. To enable the students to locate local as well national economic problems.</p> <p>CO2. To gather data on the economic problems and to analyse them</p> <p>CO3. To find solution to the economic issues</p>
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Name of the Course	Course Code	Course Outcome
Microeconomics I	12 UEC 11	<p>CO1. Students would acquire basic knowledge about rational behaviour of an individual as consumer, producer and seller.</p> <p>CO2. Students would gain clarification on microeconomic concepts and theories.</p>
Mathematics	12 UECA 11	CO1. Students would be equipping in basic mathematics in order to pursue higher education.
Economics for The Non- Economists	12 UNM 11	<p>CO1. Students would appreciate the relevance of economics and its subject matter.</p> <p>CO2. Would acquire knowledge on the relevance of the market forces.</p>
Micro Economics	12 UEC 21	<p>CO1. Students would acquire ideas related to factor markets and factor pricing.</p> <p>CO2. Students would be able to acquire knowledge on factor pricing and product pricing.</p>
Mathematics II	12 UCA 21	CO1. Students would get prepared to study their basic economics subjects with the language of mathematics.
Practical Economics	12 USB 21	<p>CO1. Student would know to compute elasticities and its applications.</p> <p>CO2. Understand the basics of different market structure.</p>
International Economics - I	12 UEC 31	<p>CO1. Students would appreciate the importance of international trade.</p> <p>CO2. Students will have some basic theoretical knowledge and the concepts of</p>

		balance of payment and balance of trade.
History of Indian Freedom Movement	12 UECA 31	CO1. Students would be aware of Indian freedom movement. CO2. Students would be able to appreciate and respect the national leaders.
Human Development	12 USB 31	CO1. Students should made aware of the awareness and skill to analyse the society from the human development perspective.
Data Collection and Presentation	12 USB 32	CO1. Students would know what data are, methods of collecting it and present them in diagram.
International Economics - II	12 UEC 41	CO1. Students would acquire knowledge and skill that would help them to take rational decision in issues related to international economics.
Indian Constitution	12 UECA 42	CO1. Students would know the basics of Indian constitutions. CO2. Students would get familiarised with competitive exams.
Statistics – I	12 UECE 41	CO1. Students would be familiarised with various statistical tools. CO2. Students would know to use different tools and solve practical problems. CO3. Students would get familiarised with competitive exams.
Macroeconomics - I	12 UEC 51	CO1. Students would know the importance of macroeconomic policies. CO2. Students would be familiarised with basic macroeconomic concepts. CO3. Students would know various macroeconomic theories.
Fiscal Economics	12 UEC 52	CO1. Students would know the basics of public revenue and its expenditure. CO2. Students would know the basic concepts involved in union budget.
Indian Economic Development	12 UEC 53	CO1. Students would have the knowledge on the India's natural resource base. CO2. Would be familiarised on demographic features of India. CO3. Students would appreciate issues related to poverty and unemployment. CO4. Students would made aware of agricultural and industrial issues.
Labour Economics	12 UEC 54	CO1. Students would know the concept of labour and its importance. CO2. Students would know different welfare measures of India.
Money & Banking	12 UEC 55	CO1. understand the importance of money, evolutions and its functioning mechanism CO2. understand the functioning of money and capital markets

Statistics - II	12 UECE 51	CO1. Will have good knowledge on various statistical tools. CO2. Make use of the tool for solving practical problems.
Macroeconomics - II	12 UEC 61	CO1. Students will know the importance of macroeconomic policies. CO2. Students will know the basic macroeconomics theories.
Entrepreneurial Development	12 UEC 62	CO1. Students will have good knowledge on entrepreneurial skill. CO2. Good knowledge about the relevance of this subject in the modern world.
Development Economics	12 UEC 63	CO1. familiar with the concepts of growth and development CO2. Have some very basic theories of economic growth. CO3. To have some of the experiences of India with respect to five year planning.
Basics of Computer Learning	12 UEC 64	CO1. Students will be made computer literate in matters related to everyday usage of computer.
Project	12 UECE 61	CO1. To enable the students to locate local as well national economic problems. CO2. To gather data on the economic problems and to analyse them CO3. To find solution to the economic issues

Name of the Course	Course Code	Course Outcome
Advanced Microeconomics - I	12 PEC11	CO1. Students would know economics behavior of individuals, firms and markets. CO2. Students would know various aspects of consumer behaviors and demand analysis, production theories and different aspects of costs. CO3. Students would appreciate theories of different markets and equilibrium of firm.
Macroeconomics	12 PEC12	CO1. Students would be made aware of growing influence and involvement of the state in economic fields.

		CO2. Students will have knowledge on national income, consumption function, investment function and theories of macroeconomic policies.
Mathematical Methods	12 PEC13	CO1. Students are expected to know about various mathematical concepts which are essential for modern economic theories. CO2. Students would know how to apply the mathematical tools for their research purpose and CO3. It is expected to enable the students in preparing different competitive examinations.
Monetary Economics	12 PEC14	CO1. Students would know price behaviour and its cyclical nature. CO2. Students would be made aware of issues related to consumption, saving, investment and employment.
Marketing Management	12 PEC15	CO1. Students would acquire analytical skills on the behavior of individuals, firms and markets. CO2. Students would know various pricing methods. CO3. It enables the students to know about the various media of advertisement and helps to increase the sale proceeds.
Advanced Microeconomics - II	12 PEC 21	CO1. Students would know theories related to firms and distributions. CO2. Students would know welfare economics and general equilibrium in closed and open economic system. CO3. Students would be equipped with the analytical skills in the economic behavior of individuals under certainty and uncertainty.
Macroeconomics - II	12 PEC 22	CO1. Students would know the functioning of the economy along with its

		fluctuations.
Statistical Methods	12 PEC 23	CO1. Students would acquire the knowledge in statistical concepts which are essential for modern economic theories CO2. Students would be able to apply the statistical tools for their research purpose.
International Economics	12 PEC 24	CO1. It would create awareness among the students about the world economy. CO2. Students will be equipped to face the world of globalization. CO3. It would create the students to get the employment opportunities in the MNCs. CO4. It would appreciate the students to understand the International Monetary Systems and Financial Institutions.
Tourism Management	12 PECE 21	CO1. Students would have in depth view on tourism. CO2. Students would appreciate tourism related research. CO3. Students would have carrier opportunities in the field of tourism.
Economics of Insurance	12 PECE 22	CO1. Students would be able to appreciate the importance of insurance. CO2. Students will be able to differentiate between risk and uncertainty.
Development Economics	12PEC31	CO1. Students would be able to differentiate economic growth from economic development. CO2. Students would be able to appreciate the relevance and significance of different growth theories.
Public Economics	12 PEC 32	CO1. Students would be able to know the role of government in economic development.

		<p>CO2. Students would be able to know their responsibilities in protecting public utilities.</p> <p>CO3. Students will be able to know the system of taxation, public expenditure and budgeting.</p> <p>CO4. Student would be able to appreciate honest tax payers.</p>
Industrial Economics	12 PEC 33	<p>CO1. It would provide knowledge to the students on basic issues such as productivity, efficiency, capacity utilization and debates involved in the industrial development of India.</p> <p>CO2. Students would be able to gain knowledge about the economics of industry in a cogent and analytical manner, particularly in the Indian context.</p>
Human Resource Management	12 PEC 34	<p>CO1. It enables the students to learn principles and practices of developing human resources.</p> <p>CO2. Students would acquire the skills that needed for career.</p> <p>CO3. It would enable the students to promote interpersonal relations.</p>
Research Methodology	12 PEC 35	<p>CO1. It would enable the students to understand the methodology of economic research and social research.</p> <p>CO2. It would provide an environment and creating aptitude towards research.</p> <p>CO3. It would make the students to understand the current economic problems.</p>
Micro Finance and Rural credit	12PECE31	<p>CO1. Students will have knowledge of understanding rural economy and their problems.</p> <p>CO2. Students would made aware of different sources rural credit.</p>
Indian Economy	12PEC 41	<p>CO1. Students would appreciate the growth stagnation debate.</p>

		<p>CO2. Students would made aware of Indian economy problems related to agriculture and industry.</p> <p>Co3. Students would made known of different planting strategies in India.</p>
Environmental Economics	12PEC42	<p>CO1. Students would be able to know the basic concepts of Environmental Economics and</p> <p>CO2. It enable the students to acquire and acknowledge value the environmental issues.</p> <p>CO3. The students would made aware of the environmental degradation.</p> <p>CO4. Students would appreciate the importance of environment and its economic value.</p>
Computer Application in Economics	12PEC 43	<p>CO1. Student would be able to access, download and use electronic databases for all their learning of the subject matter of economics</p> <p>CO2. They are able to use standard operational software like word, excel and power point of MS Office.</p> <p>CO3. They are conversant with the measuring of some arithmetic and statistical values and inference for their subject.</p>
Economics of Infrastructure	12 PEC 44	<p>CO1. Students would be exposed to the importance of infrastructure in economic development.</p>
Project	12 PEC 45	<p>CO1. To enable the students to locate local as well national economic problems.</p> <p>CO2. To gather data on the economic problems and to analyse them</p> <p>CO3. To find solution to the economic issues</p>

English

B.A. English	<u>Programme Outcomes</u>
	PO1: Understand the process of communicating and interpreting human experience through literary representation.
	PO2: Study how individuals in specific historical, cultural, and rhetorical circumstances represent their experience and ideas through the medium of language.
	PO3: Become effective thinkers and communicators in the current information-intensive society.
	PO4: Develop skills for interpretation of literature.
	<u>Programme Specific Outcomes</u>
	PSO1: Acquire knowledge of English grammar and develop accuracy in the use of English.
	PSO2: Understand the complex dynamics of literary genres.
	PSO3: Acquire the capability to interpret texts with critical, aesthetic, and ethical sensitivity.
	PSO4: Acquire the knowledge of the range of periods of English literature, its genres, and the critical traditions.
PSO5: Develop a broad knowledge and understanding of the cultural contexts, and theoretical dimensions of the subject and the presentation of themes in the	

	<p>reading of texts.</p> <p>PSO6: Understand the literary, cultural and socio-historical contexts in which literature is written and read.</p> <p>PSO7: Develop an awareness of the depth and complexity of human existence, perceived across the boundaries of time, place, culture, race, ethnicity and gender.</p>
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B.A. ENGLISH (2018-19)

Course & Code	Course Outcome
General	1) Acquire the four language skills (Listening, Speaking, Reading and Writing).
English-I	2) Develop the skill of independent reading of graded texts.
18UGE11	3) Consolidate and expand vocabulary.
General	4) Acquire the skills needed to participate in a conversation that builds knowledge collaboratively.
English-II	5) Use grammatical structures in meaningful contexts.
18UGE21	6) Oral communication for day-to-day activities.
General	7) Use the different forms of written communication.
English-III	8) Build skills of analytical and interpretive argument.

<p>18UGE31 General English-IV 18UGE41 (General English Courses I – VII)</p>	<p>9) Become accomplished, active readers who can articulate interpretations. 10) Write effectively for a variety of professional and social settings.</p>
<p>Indian Writing in English 18UEL11</p>	<p>CO1: <i>Identify the wide range of themes in Indian Writing in English.</i> CO2: <i>Learn the meaning of “Indianness” through representative works.</i> CO3: <i>Understand the socio-cultural contexts in contemporary India through literary texts.</i></p>
<p>Literary Forms and Terms 18UELA11</p>	<p>CO1: <i>Comprehend the dimensions of literary forms.</i> CO2: <i>Learn the meanings of literary terms.</i> CO3: <i>Identify literature as a discipline and examine its fundamental components.</i></p>
<p>Spoken English 18UNM11</p>	<p>CO1: <i>Develop fluency in English.</i> CO2: <i>Perform conversational practice in situations.</i> CO3: <i>Acquire the ability to participate in debate, panel discussion, role play, etc.</i></p>
<p>Word Power 18UNM11</p>	<p>CO1: <i>Develop the active as well as passive Vocabulary of students</i></p>

Drama 18UEL21	CO1: <i>Introduce to students the techniques and subtleties of the genre, drama</i> CO2: <i>Enable students to know the different kinds of drama</i>
Social History of England 18UELA21	CO1: <i>Acquaint students with the Social history of England so that they may understand literary works better</i>
Listening Skills 18UNM21	CO1: <i>Expose the learners to Spoken English in both neutral and native accent</i> CO2: <i>Help the learners understand all kinds of spoken forms</i> CO3: <i>Make the learners respond to the spoken word</i> CO4: <i>Facilitate the learners take notes while listening</i> CO5: <i>Make the learners assimilate correct pronunciation and intonation</i> CO6: <i>Provide the learners some standard models of speech</i> CO7: <i>Help the learners take TOFEL and IELTS tests online</i> CO8: <i>Motivate the learners to speak in English by way of imitation</i>
Essential English Grammar 18UNM21	CO1: <i>Help students learn the essential aspects of English grammar</i> CO2: <i>Help students write competitive examinations with confidence</i>
Soft Skills 18USB22	CO1: <i>To enhance basic communication skills of the learners.</i> CO2: <i>To make them fluent in their daily conversation with others.</i> CO3: <i>To help the learners to develop positive attitude through soft skills.</i> CO4: <i>To give the first hand experience of placement interviews and group discussion.</i>

	CO5: To prepare the learners to face the challenges in life by developing soft skills.
The Art of Public Speaking 18USB22	CO1: <i>Help students learn the techniques in public speaking</i> CO2: <i>Enable students learn basic phonetics</i> CO3: <i>Give students training in voice modulation</i>
British Literature-I 18UEL31	CO1: <i>Acquaint students with the important features of Elizabethan Literature</i> CO2: <i>Help students study the representative works during the 16th and 17th centuries</i>
Phonetics 18UELA31	CO1: <i>Study the essential features of Phonetics.</i> CO2: <i>Understand the sounds in English.</i> CO3: <i>Gain the knowledge of the fundamentals of pronouncing the language according to RP.</i>
Skills of Interpretation of Poetry 18USB32	CO1: <i>Acquire the skill of analyzing the language used in poetry.</i> CO2: <i>Identify the figures of speech, rhythm and structures.</i> CO3: <i>Study rhetorical patterns and themes.</i>
British Literature-II 18UEL41	CO1: <i>Acquire the knowledge of the important features of the literature from the Age of Milton to the Pre-Romantic Period.</i> CO2: <i>Study the representative works during the 17th and 18th centuries.</i>
Grammar and	CO1: <i>Comprehend how grammatical structures are systematically related to meaning.</i> CO2: <i>Practise letter writing and essay writing</i>

Composition 18UELA41	
Computer Literacy Programme 18UEL E41	CO1: <i>Gain a working knowledge of computer</i> CO2: <i>Transfer the manuscript into power point presentation mode</i>
English for Competitive Examinations 18USB41	CO1: <i>Appear for competitive exams with an awareness of nuances in the language.</i>
British Literature-III 18UEL51	CO1: <i>Acquire the knowledge of the literature of the Romantic Age.</i> CO2: <i>Study the representative works during the first half of the 19th century.</i>
American Literature 18UEL52	CO1: <i>Analyse the representative works of American writers.</i> CO2: <i>Understand the dimensions of American Literature in the universal literary context.</i>
Diaspora Literature 18UEL53	CO1: <i>Understand the dimensions of diasporic consciousness.</i> CO2: <i>Analyse the significant works produced by diasporic writers.</i>
Literary Theory and	CO1: <i>Develop critical sensibility.</i> CO2: <i>Study the theories of critics from Plato to Arnold.</i>

Criticism 18UEL54	CO3: <i>Learn to analyze representative critical works from Elizabethan Age to Victorian Age.</i>
British Literature-IV 18UEL55	CO1: <i>Study the important features in literature from the Victorian Age to the Early 20th Century.</i> CO2: <i>Analyse the representative works from the Victorian Age to the Early 20th Century.</i>
English for Career 18UEL E51	CO1: <i>Write competitive examinations with confidence as English is a qualifying subject.</i> CO2: <i>Get an exposure to competitive examination models.</i>
Journalism 18UEL E51	CO1: <i>Learn the principles of journalism.</i> CO2: <i>Study the development of journalism in India.</i> CO3: <i>Get training in producing magazines.</i>
Shakespeare 18UEL61	CO1: <i>Understand the magnitude of the Shakespearean World</i> CO2: <i>Analyze the plays of Shakespeare in the Elizabethan context and relate them to the modern context.</i> CO3: <i>Understand the complexity and suggestiveness in Shakespeare</i>
Postcolonial Studies 18UEL62	CO1: <i>Develop a taste for New Literature in English</i> CO2: <i>Identify the various themes presented in New Literature in English</i>
History of English Literature 18UEL63	CO1: <i>Get a comprehensive view of English Literature from the Age of Chaucer to the present day.</i> CO2: <i>Study the important movements in various ages of English Literature and their salient features.</i>
Women's	CO1: <i>Enable students realize the marginalization of women in society</i>

Writing in English 18UEL64	CO2: <i>Introduce the salient features of Woman's writing English</i>
Fiction 18UEL E61	CO1: <i>Develop the skill of reading novels with focus on portrayal of theme, characterization, structure and stylistic devices</i> CO2: <i>Study the works in translation.</i>

M. A. English	<p style="text-align: center;"><u>Programme Outcomes</u></p> <p>PO1: Acquire practical and theoretical familiarity with the range, approaches, and mechanics of academic writing.</p> <p>PO2: Study how individuals in specific historical, cultural, and rhetorical circumstances represent their experience and ideas through the medium of language.</p> <p>PO3: Become a qualified, competent and articulate human resource, capable of contributing to relevant domains of knowledge and of serving the society in multiple meaningful ways.</p> <p>PO4: Acquire the capability to interpret texts with critical, aesthetic, and ethical</p>
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sensitivity.

Programme Specific Outcomes

- PSO1: Read literary texts in the light of recent theoretical interventions.
- PSO2: Explore the complexity in Shakespeare's mind and art.
- PSO3: Study the evolution and growth of English poetry, prose and fiction.
- PSO4: Get an overview of the processes and texts that led to the evolution of American literature as an independent branch or school of literature.
- PSO5: Acquire knowledge of English grammar.
- PSO6: Study the contemporary approaches in literary criticism.
- PSO7: Study the various modes of narrative fiction attempted across centuries, continents and languages.
- PSO8: Get an exposure to Gender issues through the study of Women's Writing in English.

M.A. ENGLISH 2018-19

Name of the Course and Course Code	Course Outcome
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<p>British Literature-I 18PEL11</p>	<p>CO1: Learn the important features of the Age of Chaucer and the Elizabethan Age. CO2: Study the representative works produced during the 16th and 17th centuries.</p>
<p>British Literature-II 18PEL12</p>	<p>CO1: Learn the important features of the literature produced from the Neo-Classical Age to the Romantic Age. CO2: Study the representative works during the 18th and 19th centuries.</p>
<p>Indian Writing in English-I 18PEL13</p>	<p>CO1: Get exposure to a wide range of Indian Writing in English (I Phase). CO2: Learn the meaning of “Indianness” through the study of Indian English Literature.</p>
<p>Advanced English Grammar 18PEL14</p>	<p>CO1: Study the necessary rules of English grammar. CO2: Understand grammatical structures in English. CO3: Practise clause analysis.</p>
<p>Diaspora Literature 18PELE11</p>	<p>CO1: Study the significant works produced by diaspora writers. CO2: Understand the dimensions of diasporic consciousness. CO3: Learn about transnational migration and diasporic communities in our current era of globalization.</p>
<p>World Classics in Translation 18PELE11</p>	<p>CO1: Explore the themes presented in world classics. CO2: Identify the stylistic devices in world classics.</p>
<p>British Literature-</p>	<p>CO1: Study the essential features of the Victorian Age to the</p>

III 18PEL21	present Day. CO2: Study the representative works of the writers of the Victorian Age to the Present Day.
American Literature 18PEL22	CO1: Understand the dimensions of American Literature in the universal literary context. CO2: Learn the representative works of American writers.
Indian Writing in English-II 18PEL23	CO1: Identify the wide range of Indian Writing in English (II Phase). CO2: Learn the recent trends in Indian Writing in English.
History of the English Language and Phonetics 18PEL24	CO1: Study the history of the English language. CO2: Learn the essential aspects of linguistics. CO3: Perform practice in phonetic transcription.
Soft Skills 18PELE21	CO1: Acquire communication skills so as to the various in life CO2: Understand the components of personality and life skills so as to apply the acquired knowledge to march towards excellence in career. CO3: Develop creativity and other latent talents with proper goal setting so that self- esteem gets enhanced. CO4: Write competitive examinations with adequate training.
European Fiction 18PELE21	CO1: Understand the dimensions of European fiction in the universal literary context. CO2: Study the representative works of European novelists

Shakespeare 18PEL31	CO1: Analyse the plays of Shakespeare in the Elizabethan context and relate them to the modern context. CO2: Understand the magnitude of the Shakespearean world. CO3: Explore the complexity and suggestiveness in Shakespeare.
Postcolonial Studies 18PEL32	CO1: Understand the dimensions of Postcolonial Literature. CO2: Identify the various themes presented in Postcolonial Literature.
Literary Theory and Criticism-I 18PEL33	CO1: Develop critical sensibility. CO2: Study the theories of critics from Plato to New Critics. CO3: Study the five approaches of literary criticism.
Women's Writing in English 18PEL34	CO1: Understand the dimensions of women's writing in literature. CO2: Identify the various themes presented in women's writing in English.
Research Methodology 18PELE31	CO1: Learn the fundamental aspects of quality research. CO2: Use parenthetical documentation as recommended in MLA Handbook.
Writing Skills 18PELE31	CO1: Develop writing skills. CO2: Gain accuracy and variety in writing.
Comparative Literature 18PEL41	CO1: Study the principles of the French and American Schools of Comparative Literature. CO2: Understand the concept of oneness of literature. CO3: Realize the need for moving between and across the literary

	<p>systems and languages.</p> <p>CO4: Apply the principles of Comparative Literature to cultural texts.</p>
<p>Literature for Competitive Examinations 18PEL42</p>	<p>CO1: Write NET/SET examinations with adequate knowledge.</p> <p>CO2: Get a comprehensive view of English Literature from the age of Chaucer to the Present Day.</p>
<p>Literary Theory and Criticism-II 18PEL43</p>	<p>CO1: Acquire critical sensibility.</p> <p>CO2: Get an exposure to recent critical theories.</p> <p>CO3: Comprehend the dominance of theory in the postmodern phase.</p>
<p>English Language Teaching 18PEL44</p>	<p>CO1: Understand the principles of English language teaching.</p> <p>CO2: Get practice in lesson plan writing.</p> <p>CO3: Practise in actual classroom situations through teaching practice in school and college.</p>
<p>Project 18PELE41</p>	<p>CO1: Prepare a project.</p> <p>CO2: Acquire writing skills for quality research.</p> <p>CO3: Demonstrate the awareness of contemporary issues in literature.</p> <p>CO4: Identify, formulate and analyze complex problems to reach substantiated conclusions.</p>

<p>M. Phil. English</p>	<p style="text-align: center;"><u>Programme Outcomes</u></p> <p>PO1: Explore emerging areas of research.</p> <p>PO2: Develop the ability to organize ideas and present them coherently.</p> <p>PO3: Gain the ability to take up full-time research leading to doctoral degree.</p> <p>PO4: Acquire the ability to interact with a peer group in small seminar sessions and get training in closely supervised research.</p> <p style="text-align: center;"><u>Programme Specific Outcomes</u></p> <p>PSO1: Select and apply appropriate techniques to analyze literary texts.</p> <p>PSO2: Acquire the knowledge of documentation.</p> <p>PSO3: Gain the ability to conduct quality research and present the findings in an effective manner in the field of English Literature.</p> <p>PSO4: Get the knowledge of the issues and themes in Postcolonial Studies.</p> <p>PSO5: Develop an understanding of contemporary critical and theoretical debates which enable the evaluation of current research.</p>
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M.PHIL. ENGLISH

<p>Course</p>	<p>Course Outcome</p>
<p>Research Methodology</p>	<p>CO1: Learn the essential aspects of research methodology. CO2: Learn the mechanics of thesis writing.</p>

(18MEL11)	CO3: Acquire a comprehensive view of the creation of research papers.
Literary Theory and Criticism (18MEL12)	CO1: Acquire critical and interpretative skills. CO2: Get an overview of the major critical theories and approaches. CO3: Expand the critical horizon.
Postcolonial Studies (18MELE21)	CO1: Learn the recent trends in Postcolonial Literature. CO2: Understand the dimensions of Postcolonial Literature. CO3: Identify the various themes presented in Postcolonial Literature.
Dissertation	CO1: Explore emerging areas of research. CO2: Develop the ability to organize ideas and present them coherently. CO3: Gain the ability to take up full-time research leading to doctoral degree.

<u>Programme Outcomes</u>	
B.A. English	<p>PO1: Understand the process of communicating and interpreting human experience through literary representation.</p> <p>PO2: Study how individuals in specific historical, cultural, and rhetorical circumstances represent their experience and ideas through the medium of language.</p> <p>PO3: Become effective thinkers and communicators in the current information-intensive society.</p>

PO4: Develop skills for interpretation of literature.

Programme Specific Outcomes

PSO1: Acquire knowledge of English grammar and develop accuracy in the use of English.

PSO2: Understand the complex dynamics of literary genres.

PSO3: Acquire the capability to interpret texts with critical, aesthetic, and ethical sensitivity.

PSO4: Acquire the knowledge of the range of periods of English literature, its genres, and the critical traditions.

PSO5: Develop a broad knowledge and understanding of the cultural contexts, and theoretical dimensions of the subject and the presentation of themes in the reading of texts.

PSO6: Understand the literary, cultural and socio-historical contexts in which literature is written and read.

PSO7: Develop an awareness of the depth and complexity of human existence, perceived across the boundaries of time, place, culture, race, ethnicity and gender.

B.A. ENGLISH (2015-16)

Course & Code	Course Outcome
General English-I 15UGE11	1) Acquire the four language skills (Listening, Speaking, Reading and Writing). 2) Develop the skill of independent reading of graded texts.
General English-II 15UGE21	3) Consolidate and expand vocabulary. 4) Acquire the skills needed to participate in a conversation that builds knowledge collaboratively. 5) Use grammatical structures in meaningful contexts.
General English-III 15UGE31	6) Oral communication for day-to-day activities. 7) Use the different forms of written communication. 8) Build skills of analytical and interpretive argument.
General English-IV 15UGE41	9) Become accomplished, active readers who can articulate interpretations. 10) Write effectively for a variety of professional and social settings.
(General English Courses I – VII)	
Indian	CO1: <i>Identify the wide range of themes in Indian Writing in English.</i>

Writing in English 15UEL11	CO2: <i>Learn the meaning of “Indianness” through representative works.</i> CO3: <i>Understand the socio-cultural contexts in contemporary India through literary texts.</i>
Literary Forms and Terms 15UELA11	CO1: <i>Comprehend the dimensions of literary forms.</i> CO2: <i>Learn the meanings of literary terms.</i> CO3: <i>Identify literature as a discipline and examine its fundamental components.</i>
Spoken English 15UNM11	CO1: <i>Develop fluency in English.</i> CO2: <i>Perform conversational practice in situations.</i> CO3: <i>Acquire the ability to participate in debate, panel discussion, role play, etc.</i>
Word Power 15UNM11	CO1: <i>Develop the active as well as passive Vocabulary of students</i>
Drama 15UEL21	CO1: <i>Introduce to students the techniques and subtleties of the genre, drama</i> CO2: <i>Enable students to know the different kinds of drama</i>
Social History of England 15UELA21	CO1: <i>Acquaint students with the Social history of England so that they may understand literary works better</i>
Listening Skills 15UNM21	CO1: <i>Expose the learners to Spoken English in both neutral and native accent</i> CO2: <i>Help the learners understand all kinds of spoken forms</i> CO3: <i>Make the learners respond to the spoken word</i> CO4: <i>Facilitate the learners take notes while listening</i>

	<p>CO5: <i>Make the learners assimilate correct pronunciation and intonation</i></p> <p>CO6: <i>Provide the learners some standard models of speech</i></p> <p>CO7: <i>Help the learners take TOFEL and IELTS tests online</i></p> <p>CO8: <i>Motivate the learners to speak in English by way of imitation</i></p>
<p>Essential English Grammar 15UNM21</p>	<p>CO1: <i>Help students learn the essential aspects of English grammar</i></p> <p>CO2: <i>Help students write competitive examinations with confidence</i></p>
<p>Soft Skills 15USB22</p>	<p>CO1: To enhance basic communication skills of the learners.</p> <p>CO2: To make them fluent in their daily conversation with others.</p> <p>CO3: To help the learners to develop positive attitude through soft skills.</p> <p>CO4: To give the first hand experience of placement interviews and group discussion.</p> <p>CO5: To prepare the learners to face the challenges in life by developing soft skills.</p>
<p>The Art of Public Speaking 15USB22</p>	<p>CO1: <i>Help students learn the techniques in public speaking</i></p> <p>CO2: <i>Enable students learn basic phonetics</i></p> <p>CO3: <i>Give students training in voice modulation</i></p>
<p>British Literature-I 15UEL31</p>	<p>CO1: <i>Acquaint students with the important features of Elizabethan Literature</i></p> <p>CO2: <i>Help students study the representative works during the 16th and 17th centuries</i></p>
<p>Spoken English:</p>	<p>CO1: <i>Study the essential features of Phonetics.</i></p> <p>CO2: <i>Understand the sounds in English.</i></p>

<p>Theory and Practice</p> <p>15UELA31</p>	<p>CO3: <i>Gain the knowledge of the fundamentals of pronouncing the language according to RP.</i></p>
<p>Skills of Interpretation of Poetry</p> <p>15USB32</p>	<p>CO1: <i>Acquire the skill of analyzing the language used in poetry.</i></p> <p>CO2: <i>Identify the figures of speech, rhythm and structures.</i></p> <p>CO3: <i>Study rhetorical patterns and themes.</i></p>
<p>British Literature-II</p> <p>15UEL41</p>	<p>CO1: <i>Acquire the knowledge of the important features of the literature from the Age of Milton to the Pre-Romantic Period.</i></p> <p>CO2: <i>Study the representative works during the 17th and 18th centuries.</i></p>
<p>Grammar and Composition</p> <p>15UELA41</p>	<p>CO1: <i>Comprehend how grammatical structures are systematically related to meaning.</i></p> <p>CO2: <i>Practise letter writing and essay writing</i></p>
<p>Computer Literacy Programme</p> <p>15UEL E41</p>	<p>CO1: <i>Gain a working knowledge of computer</i></p> <p>CO2: <i>Transfer the manuscript into power point presentation mode</i></p>
<p>English for Competitive Examination</p>	<p>CO1: <i>Appear for competitive exams with an awareness of nuances in the language.</i></p>

s 15USB41	
British Literature-III 15UEL51	CO1: <i>Acquire the knowledge of the literature of the Romantic Age.</i> CO2: <i>Study the representative works during the first half of the 19th century.</i>
American Literature 15UEL52	CO1: <i>Analyse the representative works of American writers.</i> CO2: <i>Understand the dimensions of American Literature in the universal literary context.</i>
Diaspora Literature 15UEL53	CO1: <i>Understand the dimensions of diasporic consciousness.</i> CO2: <i>Analyse the significant works produced by diasporic writers.</i>
Literary Theory and Criticism 15UEL54	CO1: <i>Develop critical sensibility.</i> CO2: <i>Study the theories of critics from Plato to Arnold.</i> CO3: <i>Learn to analyze representative critical works from Elizabethan Age to Victorian Age.</i>
British Literature-IV 15UEL55	CO1: <i>Study the important features in literature from the Victorian Age to the Early 20th Century.</i> CO2: <i>Analyse the representative works from the Victorian Age to the Early 20th Century.</i>
English for Career 15UEL E51	CO1: <i>Write competitive examinations with confidence as English is a qualifying subject.</i> CO2: <i>Get an exposure to competitive examination models.</i>
Journalism	CO1: <i>Learn the principles of journalism.</i>

15UEL E51	CO2: <i>Study the development of journalism in India.</i> CO3: <i>Get training in producing magazines.</i>
Shakespeare 15UEL61	CO1: <i>Understand the magnitude of the Shakespearean World</i> CO2: <i>Analyze the plays of Shakespeare in the Elizabethan context and relate them to the modern context.</i> CO3: <i>Understand the complexity and suggestiveness in Shakespeare</i>
Postcolonial Studies 15UEL62	CO1: <i>Develop a taste for New Literature in English</i> CO2: <i>Identify the various themes presented in New Literature in English</i>
History of English Literature 15UEL63	CO1: <i>Get a comprehensive view of English Literature from the Age of Chaucer to the present day.</i> CO2: <i>Study the important movements in various ages of English Literature and their salient features.</i>
Women's Writing in English 15UEL64	CO1: <i>Enable students realize the marginalization of women in society</i> CO2: <i>Introduce the salient features of Woman's writing English</i>
Fiction 15UEL E61	CO1: <i>Develop the skill of reading novels with focus on portrayal of theme, characterization, structure and stylistic devices</i> CO2: <i>Study the works in translation.</i>

**M. A.
English**

Programme Outcomes

- PO1: Acquire practical and theoretical familiarity with the range, approaches, and mechanics of academic writing.
- PO2: Study how individuals in specific historical, cultural, and rhetorical circumstances represent their experience and ideas through the medium of language.
- PO3: Become a qualified, competent and articulate human resource, capable of contributing to relevant domains of knowledge and of serving the society in multiple meaningful ways.
- PO4: Acquire the capability to interpret texts with critical, aesthetic, and ethical sensitivity.

Programme Specific Outcomes

- PSO1: Read literary texts in the light of recent theoretical interventions.
- PSO2: Explore the complexity in Shakespeare's mind and art.
- PSO3: Study the evolution and growth of English poetry, prose and fiction.
- PSO4: Get an overview of the processes and texts that led to the evolution of American literature as an independent branch or school of literature.
- PSO5: Acquire knowledge of English grammar.
- PSO6: Study the contemporary approaches in literary criticism.

	<p>PSO7: Study the various modes of narrative fiction attempted across centuries, continents and languages.</p> <p>PSO8: Get an exposure to Gender issues through the study of Women's Writing in English.</p>
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Name of the Course and Course Code	Course Outcome
British Literature-I 15PEL11	<p>CO1: Learn the important features of the Age of Chaucer and the Elizabethan Age.</p> <p>CO2: Study the representative works produced during the 16th and 17th centuries.</p>
British Literature-II 15PEL12	<p>CO1: Learn the important features of the literature produced from the Puritan Age to the Pre-Romantic Age.</p> <p>CO2: Study the representative works during the 18th and 19th centuries.</p>
Indian Writing in English-I 15PEL13	<p>CO1: Get exposure to a wide range of Indian Writing in English (I Phase).</p> <p>CO2: Learn the meaning of "Indianness" through the study of Indian English Literature.</p>
Advanced English Grammar 15PEL14	<p>CO1: Study the necessary rules of English grammar.</p> <p>CO2: Understand grammatical structures in English.</p> <p>CO3: Practise clause analysis.</p>
Fiction	<p>CO1: Comprehend the dimensions of fiction in the universal literary context.</p>

15PELE11	CO2: Understand the representative works of Nobel Laureates. CO3: Get an exposure to world literature through the works of Nobel Laureates.
World Classics in Translation 15PELE11	CO1: Explore the themes presented in world classics. CO2: Identify the stylistic devices in world classics.
British Literature-III 15PEL21	CO1: Study the essential features of the Romantic Age. CO2: Study the representative works in the first half of the 19 th century.
British Literature-IV 15PEL22	CO1: Learn the important features of the literature produced from the Victorian Age to Present Day. CO2: Study the representative works of writers belonging to the Victorian Age to the Present Day.
Indian Writing in English-II 15PEL23	CO1: Identify the wide range of Indian Writing in English (II Phase). CO2: Learn the recent trends in Indian Writing in English.
History of the English Language and Phonetics 15PEL24	CO1: Study the history of the English language. CO2: Learn the essential aspects of linguistics. CO3: Perform practice in phonetic transcription.
American Literature 15PELE21	CO1: Understand the dimensions of American Literature in the universal literary context. CO2: Learn the representative works of American writers.

European Fiction 15PELE21	CO1: Understand the dimensions of European fiction in the universal literary context. CO2: Study the representative works of European novelists
Shakespeare 15PEL31	CO1: Analyse the plays of Shakespeare in the Elizabethan context and relate them to the modern context. CO2: Understand the magnitude of the Shakespearean world. CO3: Explore the complexity and suggestiveness in Shakespeare.
Postcolonial Literature 15PEL32	CO1: Understand the dimensions of Postcolonial Literature. CO2: Identify the various themes presented in Postcolonial Literature.
Literary Theory and Criticism-I 15PEL33	CO1: Develop critical sensibility. CO2: Study the theories of critics from Plato to New Critics. CO3: Study the five approaches of literary criticism.
Women's Writing in English 15PEL34	CO1: Understand the dimensions of women's writing in literature. CO2: Identify the various themes presented in women's writing in English.
Research Methodology 15PELE31	CO1: Learn the fundamental aspects of quality research. CO2: Use parenthetical documentation as recommended in MLA Handbook.
Writing Skills 15PELE31	CO1: Develop writing skills. CO2: Gain accuracy and variety in writing.
Diaspora Literature	CO1: Study the significant works produced by diaspora writers. CO2: Understand the dimensions of diasporic consciousness.

15PELE41	CO3: Learn about transnational migration and diasporic communities in our current era of globalization.
Literature for Competitive Examinations 15PEL42	CO1: Write NET/SET examinations with adequate knowledge. CO2: Get a comprehensive view of English Literature from the age of Chaucer to the Present Day.
Literary Theory and Criticism-II 15PEL43	CO1: Acquire critical sensibility. CO2: Get an exposure to recent critical theories. CO3: Comprehend the dominance of theory in the postmodern phase.
English Language Teaching 15PEL44	CO1: Understand the principles of English language teaching. CO2: Get practice in lesson plan writing. CO3: Practise in actual classroom situations through teaching practice in school and college.
Project 15PELE41	CO1: Prepare a project. CO2: Acquire writing skills for quality research. CO3: Demonstrate the awareness of contemporary issues in literature. CO4: Identify, formulate and analyze complex problems to reach substantiated conclusions.

B.A. English	<u>Programme Outcomes</u>
	PO1: Understand the process of communicating and interpreting human experience through literary representation.
	PO2: Study how individuals in specific historical, cultural, and rhetorical circumstances represent their experience and ideas through the medium of language.
	PO3: Become effective thinkers and communicators in the current information-intensive society.
	PO4: Develop skills for interpretation of literature.
	<u>Programme Specific Outcomes</u>
	PSO1: Acquire knowledge of English grammar and develop accuracy in the use of English.
	PSO2: Understand the complex dynamics of literary genres.
	PSO3: Acquire the capability to interpret texts with critical, aesthetic, and ethical sensitivity.
	PSO4: Acquire the knowledge of the range of periods of English literature, its genres, and the critical traditions.
PSO5: Develop a broad knowledge and understanding of the cultural contexts, and theoretical dimensions of the subject and the presentation of themes in the reading of texts.	
PSO6: Understand the literary, cultural and socio-historical contexts in which	

	<p>literature is written and read.</p> <p>PSO7: Develop an awareness of the depth and complexity of human existence, perceived across the boundaries of time, place, culture, race, ethnicity and gender.</p>
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B.A. ENGLISH (2012-13)

Subject & Code	Course Outcome
General English-I 12UGE11	1) Acquire the four language skills (Listening, Speaking, Reading and Writing).
General English-II 12UGE21	2) Develop the skill of independent reading of graded texts.
General English-III 12UGE31	3) Consolidate and expand vocabulary.
General English-IV 12UGE41	4) Acquire the skills needed to participate in a conversation that builds knowledge collaboratively.
	5) Use grammatical structures in meaningful contexts.
	6) Oral communication for day-to-day activities.
	7) Use the different forms of written communication.
	8) Build skills of analytical and interpretive argument.
	9) Become accomplished, active readers who can articulate interpretations.
	10) Write effectively for a variety of professional and social settings.

(General English Courses I – VII)	
Indian Writing in English 12UEL11	<p>CO1: <i>Identify the wide range of themes in Indian Writing in English.</i></p> <p>CO2: <i>Learn the meaning of “Indianness” through representative works.</i></p> <p>CO3: <i>Understand the socio-cultural contexts in contemporary India through literary texts.</i></p>
Literary Forms and Terms 12UELA11	<p>CO1: <i>Comprehend the dimensions of literary forms.</i></p> <p>CO2: <i>Learn the meanings of literary terms.</i></p> <p>CO3: <i>Identify literature as a discipline and examine its fundamental components.</i></p>
Spoken English 12UNM11	<p>CO1: <i>Develop fluency in English.</i></p> <p>CO2: <i>Perform conversational practice in situations.</i></p> <p>CO3: <i>Acquire the ability to participate in debate, panel discussion, role play, etc.</i></p>
Word Power 12UNM11	CO1: Develop the active as well as passive Vocabulary of students

Drama 12UEL21	CO1: <i>Introduce to students the techniques and subtleties of the genre, drama</i> CO2: <i>Enable students to know the different kinds of drama</i>
Social History of England 12UELA21	CO1: <i>Acquaint students with the Social history of England so that they may understand literary works better</i>
Listening Skills 12UNM21	CO1: <i>Expose the learners to Spoken English in both neutral and native accent</i> CO2: <i>Help the learners understand all kinds of spoken forms</i> CO3: <i>Make the learners respond to the spoken word</i> CO4: <i>Facilitate the learners take notes while listening</i> CO5: <i>Make the learners assimilate correct pronunciation and intonation</i> CO6: <i>Provide the learners some standard models of speech</i> CO7: <i>Help the learners take TOFEL and IELTS tests online</i> CO8: <i>Motivate the learners to speak in English by way of imitation</i>
Essential English Grammar 12UNM21	CO1: <i>Help students learn the essential aspects of English grammar</i> CO2: <i>Help students write competitive examinations with confidence</i>
Interview Skills 12USB22	CO1: <i>To make students understand the concept, methodology and components of interviews</i> CO2: <i>To provide interview models.</i>
The Art of	CO1: <i>Help students learn the techniques in public speaking</i>

Public Speaking 12USB22	CO2: <i>Enable students learn basic phonetics</i> CO3: <i>Give students training in voice modulation</i>
British Literature-I 12UEL31	CO1: <i>Acquaint students with the important features of Elizabethan Literature</i> CO2: <i>Help students study the representative works during the 16th and 17th centuries</i>
Spoken English: Theory and Practice 12UELA31	CO1: <i>Study the essential features of Phonetics.</i> CO2: <i>Understand the sounds in English.</i> CO3: <i>Gain the knowledge of the fundamentals of pronouncing the language according to RP.</i>
Skills of Interpretation of Poetry 12USB32	CO1: <i>Acquire the skill of analyzing the language used in poetry.</i> CO2: <i>Identify the figures of speech, rhythm and structures.</i> CO3: <i>Study rhetorical patterns and themes.</i>
British Literature-II 12UEL41	CO1: <i>Acquire the knowledge of the important features of the literature from the Age of Milton to the Pre-Romantic Period.</i> CO2: <i>Study the representative works during the 17th and 18th centuries.</i>
Grammar and Composition	CO1: <i>Comprehend how grammatical structures are systematically related to meaning.</i>

12UELA41	CO2: <i>Practise letter writing and essay writing</i>
Computer Literacy Programme 12UEL E41	CO1: <i>Gain a working knowledge of computer</i> CO2: <i>Transfer the manuscript into power point presentation mode</i>
English for Competitive Examinations 12USB41	CO1: <i>Appear for competitive exams with an awareness of nuances in the language.</i>
Writing Skills 12USB41	CO1: <i>To acquaint students with the various modes of writing</i> CO1: <i>To help students realize the importance of logical progression of ideas</i>
British Literature-III 12UEL51	CO1: <i>Acquire the knowledge of the literature of the Romantic Age.</i> CO2: <i>Study the representative works during the first half of the 19th century.</i>
American Literature 12UEL52	CO1: <i>Analyse the representative works of American writers.</i> CO2: <i>Understand the dimensions of American Literature in the universal literary context.</i>
Diaspora Literature 12UEL53	CO1: <i>Understand the dimensions of diasporic consciousness.</i> CO2: <i>Analyse the significant works produced by diasporic writers.</i>
Literary	CO1: <i>Develop critical sensibility.</i>

<p>Theory and Criticism 12UEL54</p>	<p>CO2: <i>Study the theories of critics from Plato to Arnold.</i></p> <p>CO3: <i>Learn to analyze representative critical works from Elizabethan Age to Victorian Age.</i></p>
<p>British Literature-IV 12UEL55</p>	<p>CO1: <i>Study the important features in literature from the Victorian Age to the Early 20th Century.</i></p> <p>CO2: <i>Analyse the representative works from the Victorian Age to the Early 20th Century.</i></p>
<p>English for Career 12UEL E51</p>	<p>CO1: <i>Write competitive examinations with confidence as English is a qualifying subject.</i></p> <p>CO2: <i>Get an exposure to competitive examination models.</i></p>
<p>Journalism 12UEL E51</p>	<p>CO1: <i>Learn the principles of journalism.</i></p> <p>CO2: <i>Study the development of journalism in India.</i></p> <p>CO3: <i>Get training in producing magazines.</i></p>
<p>Shakespeare 12UEL61</p>	<p>CO1: <i>Understand the magnitude of the Shakespearean World</i></p> <p>CO2: <i>Analyze the plays of Shakespeare in the Elizabethan context and relate them to the modern context.</i></p> <p>CO3: <i>Understand the complexity and suggestiveness in Shakespeare</i></p>
<p>Postcolonial Studies 12UEL62</p>	<p>CO1: <i>Develop a taste for New Literature in English</i></p> <p>CO2: <i>Identify the various themes presented in New Literature in English</i></p>
<p>History of English</p>	<p>CO1: <i>Get a comprehensive view of English Literature from the Age of Chaucer to the present day.</i></p>

Literature 12UEL63	CO2: <i>Study the important movements in various ages of English Literature and their salient features.</i>
Women's Writing in English 12UEL64	CO1: <i>Enable students realize the marginalization of women in society</i> CO2: <i>Introduce the salient features of Woman's writing English</i>
Fiction 12UEL E61	CO1: <i>Develop the skill of reading novels with focus on portrayal of theme, characterization, structure and stylistic devices</i> CO2: <i>Study the works in translation.</i>

M. A. English	<u>Programme Outcomes</u>
	PO1: Acquire practical and theoretical familiarity with the range, approaches, and mechanics of academic writing.
	PO2: Study how individuals in specific historical, cultural, and rhetorical circumstances represent their experience and ideas through the medium of language.
	PO3: Become a qualified, competent and articulate human resource, capable of contributing to relevant domains of knowledge and of serving the society in multiple meaningful ways.
	PO4: Acquire the capability to interpret texts with critical, aesthetic, and ethical

sensitivity.

Programme Specific Outcomes

- PSO1: Read literary texts in the light of recent theoretical interventions.
- PSO2: Explore the complexity in Shakespeare's mind and art.
- PSO3: Study the evolution and growth of English poetry, prose and fiction.
- PSO4: Get an overview of the processes and texts that led to the evolution of American literature as an independent branch or school of literature.
- PSO5: Acquire knowledge of English grammar.
- PSO6: Study the contemporary approaches in literary criticism.
- PSO7: Study the various modes of narrative fiction attempted across centuries, continents and languages.
- PSO8: Get an exposure to Gender issues through the study of Women's Writing in English.

M.A. ENGLISH 2012-13

Name of the Course and Course Code	Course Outcome
British Literature-I 12PEL11	CO1: Learn the important features of the Age of Chaucer and the Elizabethan Age. CO2: Study the representative works produced during the 16 th and 17 th centuries.
British Literature-II	CO1: Learn the important features of the literature produced from the Puritan Age to the Pre-Romantic Age.

12PEL12	CO2: Study the representative works during the 18 th and 19 th centuries.
Indian Writing in English-I 12PEL13	CO1: Get exposure to a wide range of Indian Writing in English (I Phase). CO2: Learn the meaning of “Indianness” through the study of Indian English Literature.
Advanced English Grammar 12PEL14	CO1: Study the necessary rules of English grammar. CO2: Understand grammatical structures in English. CO3: Practise clause analysis.
Journalism and Mass Communication 12PELE11	CO1: Learn the principles of Journalism. CO2: Get trained in producing own magazines. CO3: Learn the history of Journalism.
World Classics in Translation 12PELE11	CO1: Explore the themes presented in world classics. CO2: Identify the stylistic devices in world classics.
British Literature-III 12PEL21	CO1: Study the essential features of the Romantic Age. CO2: Study the representative works in the first half of the 19 th century.
British Literature-IV 12PEL22	CO1: Learn the important features of the literature produced from the Victorian Age to Present Day. CO2: Study the representative works of writers belonging to the Victorian Age to the Present Day.

History of the English Language and Phonetics 12PEL23	CO1: Study the history of the English language. CO2: Learn the essential aspects of linguistics. CO3: Perform practice in phonetic transcription.
Fiction 12PEL24	CO1: Comprehend the dimensions of fiction in the universal literary context. CO2: Study the representative works of the universal novelists.
American Literature 12PELE21	CO1: Understand the dimensions of American Literature in the universal literary context. CO2: Learn the representative works of American writers.
European Fiction 12PELE21	CO1: Understand the dimensions of European fiction in the universal literary context. CO2: Study the representative works of European novelists
Shakespeare 12PEL31	CO1: Analyse the plays of Shakespeare in the Elizabethan context and relate them to the modern context. CO2: Understand the magnitude of the Shakespearean world. CO3: Explore the complexity and suggestiveness in Shakespeare.
Postcolonial Literature 12PEL32	CO1: Understand the dimensions of Postcolonial Literature. CO2: Identify the various themes presented in Postcolonial Literature.
Literary Criticism-I 12PEL33	CO1: Develop critical sensibility. CO2: Study the theories of critics from Plato to New Critics. CO3: Study the five approaches of literary criticism.

Women's Writing in English 12PEL34	CO1: Understand the dimensions of women's writing in literature. CO2: Identify the various themes presented in women's writing in English.
Research Methodology 12PELE31	CO1: Learn the fundamental aspects of quality research. CO2: Use parenthetical documentation as recommended in MLA Handbook.
Writing Skills 12PELE31	CO1: Develop writing skills. CO2: Gain accuracy and variety in writing.
Diaspora Literature 12PELE41	CO1: Study the significant works produced by diaspora writers. CO2: Understand the dimensions of diasporic consciousness. CO3: Learn about transnational migration and diasporic communities in our current era of globalization.
Literature for Competitive Examinations 12PEL42	CO1: Write NET/SET examinations with adequate knowledge. CO2: Get a comprehensive view of English Literature from the age of Chaucer to the Present Day.
Literary Criticism- II 12PEL43	CO1: Acquire critical sensibility. CO2: Get an exposure to recent critical theories. CO3: Comprehend the dominance of theory in the postmodern phase.
English Language Teaching 12PEL44	CO1: Understand the principles of English language teaching. CO2: Get practice in lesson plan writing. CO3: Practise in actual classroom situations through teaching practice in school and

	college.
Project 12PELE41	<p>CO1: Prepare a project.</p> <p>CO2: Acquire writing skills for quality research.</p> <p>CO3: Demonstrate the awareness of contemporary issues in literature.</p> <p>CO4: Identify, formulate and analyze complex problems to reach substantiated conclusions.</p>

Course & Code	Course Outcomes
Introduction to Folkloristics (12PFL11)	<p>The student will learn basic concepts in Folkloristics and will be able to classify diverse forms of Folklore into specific categories and their interrelationships.</p> <p>The student would be exposed to the history of Folkloristics at the international level in Germany, Soviet Union, Italy and Finland.</p> <p>The student will also learn history of Folklore and pioneer scholars of Indian and Tamilnadu Folkloristics</p> <p>The students would understand the interdisciplinary nature of Folkloristics with other disciplines such as Anthropology, Literature, Linguistics, History, Sociology and Psychology.</p>
Folk Literature (15PFL12)	<p>The student would be able to understand and classify each genre of Folk literature such as prose, poetry and fixed phrase narratives.</p> <p>The student will also learn how to analyze each and every folk literary form, their structure and function.</p>
Cultural Script Writing for Media (15PFL13)	<p>The students will be trained in creative writing skills with social and cultural sensitivity.</p> <p>The students will also utilize the opportunity of creative writing for the purpose of making</p>

	documentary film or a writing fictions or plays.
Ethnography and Fieldwork Techniques (12PFL14)	<p>This course will be trained the students how to plan and prepare for Folklore and ethnographic Fieldwork.</p> <p>This course equips the how to carry out fieldwork and what should s/he do during and after field work.</p> <p>The student will be trained in conducting fieldwork, taking notes, report writng and analysing the data.</p> <p>The student would also be able to write ethnographical narratives of cultural practices.</p>
Visual Communication (12PFLE15)	<p>The student will be trained in techniques of communication such as audio-visual media.</p> <p>The student would also be able to document cultural practices in audio-visual form.</p>
Folklore Theories (12PFL21)	<p>The student will be able to understand the folk forms from different theoretical perspectives such as Mythological, Historical Geographical theory, Oral Formulaic theory and Genre theory.</p>

Media & Popular Culture (12PFL22)	<p>This course offers basic knowledge in media and culture studies.</p> <p>It would also enrich the understanding of the students in the complexities of popular culture, particularly the interrelationship between popular culture and modernism, music, society and social media.</p>
Folklore & Historiography (12PFL23)	<p>The student will be able to understand the historical importance of Folklore and significance of Folklore to Oral History.</p> <p>The students will be trained in writing history of their own local area, community and/or cultural practices.</p>
Digital Archiving & Museum Management (12PFL24)	<p>The student will be trained in documentation and preservation techniques.</p> <p>The student will also be trained in archival management.</p> <p>The student will learn about the importance of Copyright and Intellectual Property Rights.</p>
Radio & Broadcasting 12PFLE25	<p>The students will be trained necessary skills for radio and broadcasting.</p>
Folk Religion & Ritual Performance (12PFL31)	<p>The student will be to understand and analyze folk deities, their characteristics and Folk religious practices.</p> <p>The student will also be trained in analyzing ritual performance and practices.</p>
Documentary Film Making (12PFLE32)	<p>The students are trained to make a short film or documentary film as part of the coursework.</p>
Folk Performing Arts of Tamilnadu (12PFL33)	<p>This provides basic concepts of Performance, theoretical approaches to Performance and outline of Folk Performing Arts.</p>

	The student will be trained in different folk art forms and able to perform these art forms in public spaces.
Narratology (12PFL34)	This course teaches fundamental concepts of Narratology, psychodynamics of Orality, semiotic and textual studies. The student will learn narrative techniques and be exposed to narratology. The student would also be enriched in Tamil concepts of narrative studies.
Cultural Anthropology (12PFLE35)	This course would train the student in anthropological concepts, the relevance of cultural anthropology to cultural studies. The students would also be exposed to knowledge about Kinship, Marriage, Exchange and also Ritual processes.
Visual Anthropology (12PFLE41)	The student will be trained in the principles and methods of visual anthropology. The students would also be able to understand and analyze visual practices of culture.
Media & Human Rights (12PFL42)	This course exposes the students how folk artists are being victimized by different agencies such as government institutions, non-governmental organizations and other organizations. The students are also taught how to engage issues of mistreatment of folk artists and how to safeguard the rights of Folk artists.
Applied Folklore (12PFL43)	The student will be trained in Folklore Process, Folklorism and Applied Folklore. The student will also be able to understand the interrelationship between Literature and Folklore, Folklore and popular journalism, Tamil cinema, Theatre and Folklore.
Ethnomusicology (12PFLE44)	The student will be able enrich themselves in ethnomusicological processes and musical instruments. The students would also be able to understand the music making of Folk musicians and bards.

M.A in folklore

Course & code	Course Outcomes
Introduction to Folkloristics (18PFL11)	<p>The student will learn basic concepts in Folkloristics and will be able to classify diverse forms Folklore into specific categories and their interrelationships.</p> <p>The student would be exposed to the history of Folkloristics at the international level in Germany, Soviet Union, Italy and Finland.</p> <p>The student will also learn history of Folklore and pioneer scholars of Indian and Tamilnadu Folkloristics</p> <p>The students would understand the interdisciplinary nature of Folkloristics with other disciplines such as Anthropology, Literature, Linguistics, History, Sociology and Psychology.</p>
Folk Literature (18PFL12)	<p>The student would be able to understand and classify each genre of Folk literature such as prose, poetry and fixed phrase narratives.</p> <p>The student will also learn how to analyze each and every folk literary form, their structure and function.</p>
Socio-cultural History of Tamilnadu (18PFL13)	<p>The course provides broader understanding of the socio-cultural history of Tamilnadu, patterns of state formation and government in ancient, medieval and modern periods and socio cultural movements.</p> <p>This also gives exposure in social movements such as Self-respect movement, dalit movement and new social movements such as Anti-nuclear struggle in Tamilnadu contexts.</p>

<p>Field Methodology (18PFL14)</p>	<p>This course will be trained the students how to plan and prepare for Folklore and ethnographic Fieldwork.</p> <p>This course equips the how to carry out fieldwork and what should s/he do during and after field work.</p> <p>The student will be trained in conducting fieldwork, taking notes, report writng and analysing the data.</p> <p>The student would also be able to write ethnographical narratives of cultural practices.</p>
<p>Visual Communication (18PFLE15)</p>	<p>The student will be trained in techniques of communication such as audio-visual media.</p> <p>The student would also be able to document cultural practices in audio-visual form.</p>
<p>Folklore and Mass Communication (18PFLE15)</p>	<p>The student will be trained in techniques of communication such as audio-visual media.</p> <p>The student would also be able document cultural practices in audio-visual form.</p> <p>The student will learn interrelationship between Folklore and mass communication.</p>
<p>Folk Performing Arts of Tamilnadu (18PFL21)</p>	<p>This provides basic concepts of Performance, theoretical approaches to Performance and outline of Folk Performing Arts.</p> <p>The student will be trained in different folk art forms and able to perform these art forms in public spaces.</p>
<p>Folklore Theories</p>	<p>The student will be able to understand the folk forms from different theoretical perspectives such as</p>

I (18PFL22)	Mythological, Historical Geographical theory, Oral Formulaic theory and Genre theory.
Folklore & Historiography (18PFL23)	The student will be able to understand the historical importance of Folklore and significance of Folklore to Oral History. The students will be trained in writing history of their own local area, community and/or cultural practices.
Material & Visual Culture (18PFL24)	The student will learn the diverse practices of material and visual culture particularly Food culture, Dress and ornaments, and Folk Architecture.
Digital Archiving & Preservative Techniques (18PFLE25)	The student will be trained in documentation and preservation techniques. The student will also be trained in archival management.
Folk Museum, Heritage Studies and Intellectual Property Studies (18PFLE25)	The student will be trained in Museum and Heritage Management. The student will learn about the importance of Copyright and Intellectual Property Rights.
Folk Religion & Ritual Performance (18PFL31)	The student will be to understand and analyze folk deities, their characteristics and Folk religious practices. The student will also be trained in analyzing ritual performance and practices.
Interdisciplinary Paper (Introduction to Folklore) (18PFL32)	The students will be trained in the fundamental concepts of Folklore. The student would be able to understand and classify each genre of Folklore. The student will also learn how to analyze each and every folk form, their structure and function.
Cultural Anthropology (18PFL33)	This course would train the student in anthropological concepts, the relevance of cultural anthropology to cultural studies. The students would also be exposed to knowledge about Kinship, Marriage, Exchange and also Ritual

	processes.
Folklore Theories II (18PFL34)	This course enriches the students in theories such as Structural, Functional, Psychoanalytical and understand the relevance of Folklore theories in analyzing cultural practices.
Visual Anthropology (18PFLE35)	The student will be trained in the principles and methods of visual anthropology. The students would also be able to understand and analyze visual practices of culture.
Multimedia Documentation & Textualization (18PFLE35)	The student will be trained in multimedia documentation and in methods of documentation. The students will be able to equip themselves in textualizing the cultural practices.
Narrative & Textual Studies (18PFL41)	This course teaches fundamental concepts of Narratology, psychodynamics of Orality, semiotic and textual studies. The student will learn narrative techniques and be exposed to narratology. The student would also be enriched in Tamil concepts of narrative studies.
Media & Culture Studies (18PFL42)	This course offers basic knowledge in media and culture studies. It would also enrich the understanding of the students in the complexities of popular culture, particularly the interrelationship between popular culture and modernism, music, society and social media.
Applied Folklore & Popular Culture (18PFL43)	The student will be trained in Folklore Process, Folklorism and Applied Folklore. The student will also be able to understand the interrelationship between Literature and Folklore, Folklore and popular journalism, Tamil cinema, Theatre and Folklore.
Ethnomusicology (18PFLE44)	The student will be able enrich themselves in ethnomusicological processes and musical instruments. The students would also be able to understand the music making of Folk musicians and bards.
Traditional	The student will be able enrich themselves in cognitive anthropology.

<p>Knowledge System (18PFLE44)</p>	<p>The students would also be exposed to Folk medicine, marine techniques and indigenous knowledge system.</p> <p>The students will be exposed to complexities of indigenous knowledge system and intellectual property rights.</p>
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Course & Code	Course Outcomes
<p>Introduction to Folkloristics (12PFL11)</p>	<p>The student will learn basic concepts in Folkloristics and will be able to classify diverse forms of Folklore into specific categories and their interrelationships.</p> <p>The student would be exposed to the history of Folkloristics at the international level in Germany, Soviet Union, Italy and Finland.</p> <p>The student will also learn history of Folklore and pioneer scholars of Indian and Tamilnadu Folkloristics</p> <p>The students would understand the interdisciplinary nature of Folkloristics with other disciplines such as Anthropology, Literature, Linguistics, History, Sociology and Psychology.</p>
<p>Folk Literature (15PFL12)</p>	<p>The student would be able to understand and classify each genre of Folk literature such as prose, poetry and fixed phrase narratives.</p> <p>The student will also learn how to analyze each and every folk literary form, their structure and function.</p>
<p>Cultural Script Writing for Media (15PFL13)</p>	<p>The students will be trained in creative writing skills with social and cultural sensitivity.</p> <p>The students will also utilize the opportunity of creative writing for the purpose of making documentary film or a writing fictions or plays.</p>

<p>Ethnography and Fieldwork Techniques (12PFL14)</p>	<p>This course will be trained the students how to plan and prepare for Folklore and ethnographic Fieldwork.</p> <p>This course equips the how to carry out fieldwork and what should s/he do during and after field work.</p> <p>The student will be trained in conducting fieldwork, taking notes, report writng and analysing the data.</p> <p>The student would also be able to write ethnographical narratives of cultural practices.</p>
<p>Visual Communication (12PFLE15)</p>	<p>The student will be trained in techniques of communication such as audio-visual media.</p> <p>The student would also be able to document cultural practices in audio-visual form.</p>
<p>Folklore Theories (12PFL21)</p>	<p>The student will be able to understand the folk forms from different theoretical perspectives such as Mythological, Historical Geographical theory, Oral Formulaic theory and Genre theory.</p>

Media & Popular Culture (12PFL22)	<p>This course offers basic knowledge in media and culture studies.</p> <p>It would also enrich the understanding of the students in the complexities of popular culture, particularly the interrelationship between popular culture and modernism, music, society and social media.</p>
Folklore & Historiography (12PFL23)	<p>The student will be able to understand the historical importance of Folklore and significance of Folklore to Oral History.</p> <p>The students will be trained in writing history of their own local area, community and/or cultural practices.</p>
Digital Archiving & Museum Management (12PFL24)	<p>The student will be trained in documentation and preservation techniques.</p> <p>The student will also be trained in archival management.</p> <p>The student will learn about the importance of Copyright and Intellectual Property Rights.</p>
Radio & Broadcasting 12PFLE25	<p>The students will be trained necessary skills for radio and broadcasting.</p>
Folk Religion & Ritual Performance (12PFL31)	<p>The student will be to understand and analyze folk deities, their characteristics and Folk religious practices.</p> <p>The student will also be trained in analyzing ritual performance and practices.</p>
Documentary Film Making (12PFLE32)	<p>The students are trained to make a short film or documentary film as part of the coursework.</p>
Folk Performing Arts of Tamilnadu (12PFL33)	<p>This provides basic concepts of Performance, theoretical approaches to Performance and outline of Folk Performing Arts.</p> <p>The student will be trained in different folk art forms and able to perform these art forms in public spaces.</p>

<p>Narratology (12PFL34)</p>	<p>This course teaches fundamental concepts of Narratology, psychodynamics of Orality, semiotic and textual studies.</p> <p>The student will learn narrative techniques and be exposed to narratology.</p> <p>The student would also be enriched in Tamil concepts of narrative studies.</p>
<p>Cultural Anthropology (12PFLE35)</p>	<p>This course would train the student in anthropological concepts, the relevance of cultural anthropology to cultural studies.</p> <p>The students would also be exposed to knowledge about Kinship, Marriage, Exchange and also Ritual processes.</p>
<p>Visual Anthropology (12PFLE41)</p>	<p>The student will be trained in the principles and methods of visual anthropology.</p> <p>The students would also be able to understand and analyze visual practices of culture.</p>
<p>Media & Human Rights (12PFL42)</p>	<p>This course exposes the students how folk artists are being victimized by different agencies such as government institutions, non-governmental organizations and other organizations.</p> <p>The students are also taught how to engage issues of mistreatment of folk artists and how to safeguard the rights of Folk artists.</p>
<p>Applied Folklore (12PFL43)</p>	<p>The student will be trained in Folklore Process, Folklorism and Applied Folklore.</p> <p>The student will also be able to understand the interrelationship between Literature and Folklore, Folklore and popular journalism, Tamil cinema, Theatre and Folklore.</p>
<p>Ethnomusicology (12PFLE44)</p>	<p>The student will be able to enrich themselves in ethnomusicological processes and musical instruments.</p> <p>The students would also be able to understand the music making of Folk musicians and bards.</p>

Syllabus-2018

Programme: B.Sc. Mathematics

Programme Code: UMT

Students will

1. develop an appreciation of the basic concepts of Calculus, Analytical Geometry, Trigonometry, Classical Algebra, Abstract Algebra, Real, Modern and Complex Analysis, Differential Equations, Numerical Methods, Mechanics, Optimization techniques, Statistics, C++/Python and Graph Theory.
2. develop a quest for knowledge which will pave way for doing Mathematics by students themselves.
3. learn many mathematical structures
4. gain the confidence to work in a team
5. construct and express logical arguments
6. develop generic skills that will pave way for their career.

BSc Mathematics (2018-2021)

Name of the Course	Course Code	Course outcome
Differential and Integral Calculus	18 UMT 11	The students will acquire the knowledge of <ol style="list-style-type: none">1. differentiation, partial differentiation and various techniques of integration2. applications of differentiation3. evaluating integration using beta and gamma functions.4. applying the concept of double and triple integrals in physical problems.5. integral perspective of calculus.

Numerical ability I	18 UNM 11	<ul style="list-style-type: none"> • To motivate the students for appearing in competitive examinations • To enhance the mental ability in numerical problems
Set Theory, Theory of Equations and Trigonometry	18 UMT 21	<p>The students will acquire the knowledge of</p> <ol style="list-style-type: none"> 1. learning the fundamentals of sets, relations and mappings 2. the relation between roots and coefficients of equation 3. solving problems using transformation of equations 4. applications of De Moivre's theorem 5. trigonometric functions and related problems 6. hyperbolic functions
Application of Calculus	18 USB 22	<p>The students will learn</p> <ol style="list-style-type: none"> 1. the method of calculating maxima and minima 2. how to find the multiple point 3. the concept of asymptotes 4. the basic notion of tracing some standard curves 5. the expansion of Taylor's series
Mathematical Logic	18 USB 22	<p>The students will acquire the knowledge of</p> <ol style="list-style-type: none"> 1. logic and propositional calculus 2. basic logical operations, truth tables, Tautologies and contradictions 3. the applications of mathematical logic 4. conditional and biconditional statements 5. quantifiers and negations of quantified statements

Numerical ability II	18 UNM 21	<ul style="list-style-type: none"> • To motivate the students for appearing in competitive examinations • To enhance the mental ability in numerical problems
Sequence and series	18 UMT 31	<p>Students will be able to</p> <ol style="list-style-type: none"> 1. acquire the knowledge of various inequalities and their applications 2. have in-depth knowledge of various types of sequences 3. learn sub-sequences and also finding the limits of sequences 4. deepen the knowledge of infinite series and various tests for finding the behaviour of series 5. apply these concepts in other fields of mathematics.
Statistics-I	18 UMTA 31	<p>Students will be able to</p> <ol style="list-style-type: none"> 1. represent and interpret statistical data through diagrams and graphs 2. find out various statistical constants 3. understand the concept of curve fitting, correlation and regression 4. learn the theory of attributes and times series analysis 5. acquire skills to apply the theory of probability.
Techniques in Reasoning	18 USB 32	<ol style="list-style-type: none"> 1. To understand the concept of coding and decoding 2. To imbibe the mental ability and power of reasoning 3. To enhance the analytical thinking 4. To make the students competent to face competitive examinations 5. To improve the chance of getting jobs.

Bio-Statistics	18 USB 32	<ol style="list-style-type: none"> 1. To empower the methods of Statistics in medicine. 2. To learn the role of statistics in 'Clinical Medicine' 3. To acquire the knowledge of 'Preventive Medicine' 4. To know one's own health 5. To address various diseases
Python	18 UMT 41	<ol style="list-style-type: none"> 1. Students will be familiar with the basic operations in python programming 2. To have a good knowledge about decision making statements 3. Students will have a good working knowledge on the looping statements 4. To know the functions and their usages 5. To equip the students with employable skills
Statistics II	18 UMTA 41	<p>Students will be able to</p> <ol style="list-style-type: none"> 1. understand the concept of random variables and some important distributions of random variables. 2. learn about the some special discrete and continuous distributions. 3. apply the various tests of significance (for large and small samples) for attributes. 4. understand the concepts of analysis of variance. 5. expose three important applications based on chi-square distribution.
Analytical Geometry and Vector Calculus	18 UMTE 41	<p>Students will be able to</p> <ol style="list-style-type: none"> 1. understand the ideas of direction cosines of a line and symmetrical form of the equation of a straight line 2. learn about the coplanar and skew lines 3. have an in-depth knowledge of sphere, cone, cylinder and their properties 4. understand the concept of differentiation of vectors 5. acquire skills about the line integral, surface integral and volume integral.

Number Theory	18 UMTE 41	<p>Students will be able to</p> <ol style="list-style-type: none"> 1. understand the concept of well-ordering principle and Archimedean property 2. have deep idea in division algorithm, Euclidean algorithm and its applications 3. understand the fundamental theorem of arithmetic 4. acquire the basic properties of congruences 5. learn Fermat, Little and Wilson theorems.
Mathematics for competitive exams	18 USB 41	<ol style="list-style-type: none"> 1. To improve the mental ability of the students 2. To give knowledge of some frequently used sequence and series 3. To introduce sets and functions 4. To introduce differentiation, integration, permutations and limits. 5. To train the students for competitive and professional examinations
Abstract Algebra	18 UMT 51	<ol style="list-style-type: none"> 1. Students will be familiar with group and its related topics 2. To get a clear idea about homomorphism, isomorphism 3. To have basic knowledge of ring and its related topics. 4. Students will be confident enough to face any questions related with groups and rings <p>Creating the interest among the students on pure mathem</p>
Real Analysis	18 UMT 52	<p>Students will be able to</p> <ol style="list-style-type: none"> 1. have in-depth knowledge on real number system 2. understand the concept of continuity 3. understand the concepts of differentiability 4. learn the higher order derivatives and applications 5. analyze the convergence of series using integrals
Differential Equations and Fourier Series	18 UMT 53	<ol style="list-style-type: none"> 1. To enrich the students with the basic concepts of differential equations and partial differential equations. 2. To apply differential equations in various fields. 3. To have an in-depth knowledge of Laplace transforms and Fourier series. 4. To use Laplace transform for solving differential equations. 5. To create a platform for pursuing higher studies in applied mathematics
Mechanics	18 UMT 54	<ol style="list-style-type: none"> 1. To introduce the concepts of statics and dynamics 2. To know about the laws of forces and its applications

		<ul style="list-style-type: none"> 3. To study about equilibrium of strings 4. To understand the laws of motion & their applications 5. To create interest in fluid mechanics and space technology
Linear Programming and Game Theory	18 UMTE 51	<ul style="list-style-type: none"> 1. To gain the knowledge of situations in which linear programming techniques can be applied. 2. To understand the fundamental concepts and general mathematical structures of linear programming models 3. To solve linear programming problem using graphical and simplex methods. 4. To know the methods of solving managerial problems using Transportation and Assignment problems. 5. To understand the principles of two person zero sum games and to apply various methods to select and execute various optimal strategies to win the game. 6. To create interest in Management studies
Operations Research	18 UMTE 51	<ul style="list-style-type: none"> 1. To gain the knowledge of game theory and its applications 2. To introduce replacement, recruitment and promotion problems 3. To have an in-depth study of inventory control (both Deterministic and Probabilistic) 4. To understand the methods of solving real time problems using network scheduling by PERT / CPM 5. To get the knowledge of solving managerial problems using various techniques in operations research 6. To create interest in Management studies
Linear Algebra and Lattices	18 UMT 61	<ul style="list-style-type: none"> 1. To know the fundamentals of vector space 2. To make the students understand basis and dimension of a vector space 3. To determine eigen values and eigen vectors 4. To learn posets, lattices and Boolean algebra <p>To create interest in pure mathematics</p>
Modern Analysis	18 UMT 62	<ul style="list-style-type: none"> 1. To enrich the students with the concepts of countable set 2. To get a clear picture on the basic definitions of modern analysis 3. To know the various properties of complete, connected and compact spaces 4. To compare real line and metric space concepts 5. To create a good foundation for the future studies in Analysis

Complex Analysis	18 UMT 63	<ol style="list-style-type: none"> 1. To be familiar with the fundamentals of complex analysis 2. To introduce mappings and transformations 3. To imbibe the essentials of continuity, derivatives, analytic functions and contour integrals 4. To equip the students with the methods of evaluating poles and residues 5. To motivate the students to apply the concepts of complex analysis in various fields
Graph Theory	18 UMT 64	<p>Students will be able to</p> <ol style="list-style-type: none"> 1. learn fundamental concepts in graph theory 2. have an in-depth knowledge of coloring and planarity 3. gain the skills to apply the theory to solve various mathematical problems 4. know the methods of representing networks in computer science and other fields. 5. reap the fruits of graph theory
Astronomy	18 UMTE 61	<p>The learner will be able to</p> <ol style="list-style-type: none"> 1. know about celestial bodies and celestial coordinates 2. study about Kepler's laws and applications 3. know about the solar and lunar eclipses 4. create interest in astro-physics 5. understand the solar system
Numerical Methods	18 UMTE 61	<ol style="list-style-type: none"> 1. To find the roots of algebraic and transcendental equations using various methods 2. To solve simultaneous equations 3. To interpolate the function using difference tables 4. To evaluate derivatives and integration using numerical methods 5. To find solutions for differential equations
Discrete Mathematics	18 UMTE 61	<ol style="list-style-type: none"> 1. To study various combinatorial tools 2. To learn Pascal's triangle 3. To understand the law of large and small numbers 4. To learn prime factorization 5. To use combinatorial concepts in Computer Applications

Syllabus -2018

Programme: M. Sc. Mathematics

Programme Code: PMT

Program Specific Outcomes:

Students will

1. develop an appreciation of the basic concepts of Algebra, Analysis, Differential Equations, Combinatorics, Differential Geometry, Optimization techniques, Statistics, Fuzzy logic and Java.
2. develop a quest for knowledge which will pave way for doing Mathematics by students themselves.
3. develop an analytical thinking and taste for research.
4. learn many mathematical structures
5. gain the confidence to work in a team
6. construct and express logical arguments
7. develop generic skills that will pave way for their career

MSc Mathematics (2018-2021)

Name of the Course	Course Code	Course outcome
Algebra-I	18 PMT 11	The students will learn <ol style="list-style-type: none">1. Cayley's theorem and permutation groups2. Sylow's theorems in finite groups3. direct products and finite abelian groups4. about rings, ideals and homomorphism5. Euclidean, Unique Principal Ideal and Unique factorization domains
Analysis-I	18 PMT 12	The students will <ol style="list-style-type: none">1. be able to understand the concept of limits in real line2. have the knowledge of continuity, differentiability and Riemann integration and to solve its related problems3. have the knowledge of sequences and series of function and their limits4. learn the relation between sequences of continuous, differentiable, integrable functions and their limits5. have knowledge of Stone-Weierstrass theorem and its generalization
Mechanics	18 PMT 13	The students will <ol style="list-style-type: none">1. have the knowledge about the mechanics of a particle2. study Lagranges equations and Hamilton's' Principle and their applications.3. learn more about two Body central force problem4. study the concepts of dyads, dydics and principle moment of inertia5. have a depth knowledge of Hamilton's equations.

Java	18 PMT 14	<p>The learner will</p> <ol style="list-style-type: none"> 1. have a knowledge of OOPS and basics of JAVA 2. study about classes, objects, methods and constructors 3. learn inheritance, packages and interfaces 4. be able to create threads in JAVA 5. be able to solve Mathematical problems
MATLAB	18 PMT 14	<p>The learner will</p> <ol style="list-style-type: none"> 1. learn the basic concepts in MATLAB 2. be able to solve Statistical problems using MATLAB 3. learn script and function files in MATLAB 4. solve problems in numerical methods using MATLAB. <p>learn graphics using MATLAB</p>
Number Theory	18 PMTE 11	<p>The students will be able to</p> <ol style="list-style-type: none"> 1. learn about numbers and their applications 2. study the concept of congruence and power residues 3. learn quadratic residue and reciprocity 4. study about arithmetic functions 5. determine the solutions of some Diophantine equations
Algorithms and Complexity	18 PMTE 11	<p>The learner will acquire the knowledge of</p> <ol style="list-style-type: none"> 1. various Algorithms and related concepts 2. discrete Fourier transform and applications 3. extended Euclidean Algorithm 4. algorithms for the network flow problem 5. Pseudoprimalty tests, factoring and cryptography.

Linear Algebra	18 PMT 21	<p>Students will be able to</p> <ol style="list-style-type: none"> 1. solve systems of linear equations 2. understand the basic ideas of vector algebra 3. apply the basic techniques of matrix algebra and find the inverse of an invertible matrix 4. find the eigen values and eigenvectors of a square matrix using the characteristic polynomial 5. know the importance of Jordan canonical form.
Analysis-II	18 PMT 22	<p>The students will be able to have</p> <ol style="list-style-type: none"> 1. the concept of functions of several variables and vector differentiation. 2. the knowledge of Lebesgue measure 3. the knowledge of different inequalities 4. the knowledge in approximation of L^p functions 5. the knowledge of applying these concepts in Functional Analysis and Harmonic Analysis
Ordinary Differential Equations	18 PMT 23	<p>Students will be able to solve</p> <ol style="list-style-type: none"> 1. different types of differential equations using various methods 2. series solution for Legendre equations and second order differential equations 3. a system of first order homogenous and non-homogenous equations 4. initial value problems using successive approximations 5. Sturm Liouville problem and Green's function.
Calculus of variations and Integral Equations	12 PMT 24	<p>Students will be able to</p> <ol style="list-style-type: none"> 1. solve variational problems involving several unknown functions 2. solve variational problems involving several independent variables. 3. learn Hamilton's principle, Sturm – Liouville's problems and Rayleigh's principle 4. understand the relations between Linear differential equations and Volterra integral equations

		5. know Fredholm equations with separable and symmetric kernels
Advanced Java	18 PMT E 21	The learner will be able to <ol style="list-style-type: none"> 1. have more understanding of JAVA programming. 2. study Applet class and Event handling. 3. introduce Awt and its applications. 4. study networking and Java servlets. 5. study an additional package, Remote method invocation.
Mathematica	18 PMTE 21	Students will be able to <ol style="list-style-type: none"> 1. learn the basic concepts of Mathematica 2. solve mathematical problems using Mathematica 3. evaluate some special functions 4. learn the structure of graphics using mathematica 5. find numerical solutions of various equations
Computer Oriented Numerical Methods	18 PMTE 21	The learner will be able to <ol style="list-style-type: none"> 1. study Numerical Methods. 2. solve equations by iterative methods 3. solve simultaneous algebraic equations 4. compute the numerical solutions for differentiation and integration 5. compute the numerical solutions to differential equations
Algebra – II	18 PMT 31	The learner will be able to <ol style="list-style-type: none"> 1. assimilate the properties of field extensions 2. gain the knowledge of splitting fields 3. appreciate the beauty of Galois theory 4. recognize the interplay between fields and groups. 5. know infinite Galois groups.

Topology	18 PMT 32	<p>The learner will acquire the knowledge of</p> <ol style="list-style-type: none"> 1. various properties of topological spaces 2. continuous functions on topological spaces 3. connectedness and compactness 4. the countability axioms and separation axioms 5. applying the topological concepts in Functional Analysis
Complex Analysis	18 PMT 33	<p>The learner will acquire the knowledge of</p> <ol style="list-style-type: none"> 1. evaluating integrals along a path in the complex plane 2. linear fractional transformations. 3. computing Taylor and Laurent's expansions of simple functions 4. using Cauchy's Residue theorem to evaluate integrals. 5. harmonic functions.
Partial Differential Equations	18 PMT 34	<p>The learner will acquire the knowledge of</p> <ol style="list-style-type: none"> 1. basic concepts and the formation of partial differential equations. 2. various methods to solve Partial Differential equations 3. dirichlet and Neumann problems 4. solving Wave equation using second order partial differential equation 5. solving Heat conduction problem.
Statistics	18 PMTE 31	<p>The learner will get the knowledge of</p> <ol style="list-style-type: none"> 1. constructing the probability distribution of a random variable, based on a real world situation, and use it to compute expectation and variance. 2. Central limit theorem and Student's theorem 3. applying various distributions for solving real time problems 4. understanding the limiting process of distributions 5. applying the procedure of testing of hypothesis
Fuzzy Sets	18 PMTE 31	<p>The learner will acquire the knowledge of</p> <ol style="list-style-type: none"> 1. concepts of fuzzy sets 2. various operations on fuzzy sets 3. fuzzy numbers

		<ol style="list-style-type: none"> 4. fuzzy equations 5. fuzzy relations
Functional Analysis	18 PMT 41	<p>The learner will acquire the knowledge of</p> <ol style="list-style-type: none"> 1. Banach spaces and continuous linear transformations 2. the Hahn-Banach theorem and the open mapping theorem 3. elegance of Hilbert space through the conjugate space of a Hilbert space. 4. Riez representation theorem. 5. Uniform boundedness theorem and Closed graph theorem.
Differential Geometry	18 PMT 42	<p>The learner will acquire the knowledge of</p> <ol style="list-style-type: none"> 1. characteristics of curves and surfaces in space 2. fundamental existence theorem for space curves. 3. intrinsic equations and their properties 4. curvatures and developables 5. minimal and ruled surfaces
Graph Theory	18 PMT 43	<p>The learner will be able to</p> <ol style="list-style-type: none"> 1. know the basics of graph theory 2. acquire the knowledge of Eulerian and Hamiltonian graphs 3. get the idea of graph embedding on surfaces 4. understand the concept of colourings and their implications 5. apply graph theory in different fields 6. pursue research in discrete mathematics
Operations Research / Stochastic Process	18 PMTE 41	<p>The learner will acquire the knowledge of</p> <ol style="list-style-type: none"> 1. two person zero-sum game and its applications 2. PERT-CPM technique for project management 3. resource leveling with probability and cost consideration. 4. inventory control and functional role of inventory. 5. the situations that generate queueing problems and analyze various performance measures of a queueing system.

Stochastic process	18 PMTE 41	<p>The learner will acquire the knowledge of</p> <ol style="list-style-type: none"> 1. stochastic models for real life situations 2. queuing models to reorient the knowledge of stochastic analysis. 3. structure of Markov chains and Markov processes 4. random walk associated with real life 5. simulation of stochastic models
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Syllabus-2018

Programme: M.Phil. Mathematics

Programme Code: MMT

Program Specific Outcomes:

Students will

1. develop an appreciation of the basic concepts of Algebra, Banach Algebra and Spectral Theory, and Analysis.
2. develop in themselves a climate of inquiry which will pave way for doing mathematics by students themselves.
3. develop a taste for Research.
4. be equipped in analytical thinking abilities
5. learn a lot of mathematical structures
6. gain the ability to work in a team

7. enhance their ability to construct and express logical arguments
8. be able to work in abstract terms to increase the clarity and efficiency of Algebra and Analysis
9. have opportunity to develop generic skills that will assist them in any future career path

MSc Mathematics (2018-2021)

Name of the Course	Course Code	Course outcome
Commutative Algebra	18 MMT 11	Students will learn <ol style="list-style-type: none"> 1. the various elementary operations on ideals and properties of modules 2. a brief treatment of tensor products 3. the formation of rings of fractions and the associated process of localization 4. the decomposition of an ideal into primary ideals and Cohen-Seidenberg theorems on prime ideals 5. about Noetherian rings under various operations
Banach Algebra and Spectral Theory	18 MMT 12	Students will be able to <ol style="list-style-type: none"> 1. appreciate the basic concepts of Banach Algebra and Spectral Theory 2. combine the topological features of a Banach space with the algebraic features of rings 3. examine Banach algebras consisting of bounded operators on Hilbert and Banach spaces 4. apply the basic theoretical techniques to analyze linear functionals on Banach and Hilbert Spaces 5. learn the Gelfand theory of commutative Banach algebras, the theory of normal operators, the characterizations of B^*-algebras and the theory of unbounded operators
Research Methodology	18 MMT 13	The students will learn <ol style="list-style-type: none"> 1. a range of quantitative and qualitative research designs 2. the method of writing research reports 3. research report formatting and typing

		<ol style="list-style-type: none"> 4. research methodology in Mathematics 5. the types of plagiarism in research in Mathematics
Harmonic Analysis	18 MMTE 21	<p>The students will learn</p> <ol style="list-style-type: none"> 1. to construct rigorous mathematical arguments 2. to develop the knowledge of Fourier Transform 3. the basic knowledge of the boundary value of a harmonic functions 4. to prove main propositions related to Fourier series and Fourier transform 5. to solve harmonic equations in various spaces. 6. Minkowski's theorem and measures on infinite product spaces
Algebraic Topology	18 MMTE 21	<p>students will study</p> <ol style="list-style-type: none"> 1. the fundamental group of algebraic topology 2. the fundamental group that creates an algebraic image of a space 3. simplicial and singular homology and the techniques of calculating homology groups 4. cellular homology and Mayer Vietoris sequences 5. cohomology group and universal coefficient theorem
Differential Manifolds	18 MMTE 21	<p>The students will learn</p> <ol style="list-style-type: none"> 1. to explain the concepts of a manifold 2. to perform coordinate-based calculations on manifolds. 3. to describe vector fields from different points of view 4. to work effectively with tensor fields and differential forms on manifolds. 5. integration on Manifolds
Advanced Analysis	18 MMTE 21	<p>Students will learn</p> <ol style="list-style-type: none"> 1. mathematical reasoning by applying the concepts of real analysis 2. to appreciate the basic concepts of measure theory 3. to appreciate lengthy and constructive proofs 4. the fundamental theorems on integration 5. the impact of measure theory in ergodic theory

Syllabus-2015

Programme: B.Sc. Mathematics

Programme Code: UMT

Program Specific Outcomes:

Students will

1. develop an appreciation of the basic concepts of Calculus, Analytical Geometry, Trigonometry, Classical Algebra, Abstract Algebra, Real, Modern and Complex Analysis, Differential Equations, Numerical Methods, Mechanics, Optimization techniques, Statistics, C++/Python and Graph Theory.
2. develop a quest for knowledge.
3. learn many mathematical structures
4. develop generic skills.

BSc Mathematics 2015-2018

Name of the Course	Course Code	Course outcome
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Differential and Integral Calculus	15 UMT 11	<ul style="list-style-type: none"> ❖ To give an in-depth study of the applications of differentiation ❖ To apply the concept of double and triple integrals in physical problems. ❖ To learn the basic concepts in theory of equations
Numerical ability I	15 UNM 11	<ul style="list-style-type: none"> ❖ To motivate the students for appearing in competitive examinations ❖ To enhance the mental ability in numerical problems
Mathematical Logic	15 UNM 11	<ul style="list-style-type: none"> ❖ To introduce logic and propositional calculus and study basic logical operations. ❖ To study more about truth tables, Tautologies and contradictions ❖ To apply these concepts in Computer Applications
Set Theory, Theory of Equations and Trigonometry	15 UMT 21	<ul style="list-style-type: none"> ❖ To strengthen and gain the fundamentals of sets, relations and mappings ❖ To introduce to the students various number systems and related concepts ❖ To impart a knowledge of hyperbolic functions and summation of series
Numerical ability II	15 UNM 21	<ul style="list-style-type: none"> ❖ To motivate the students for appearing in Competitive examinations ❖ To enhance the mental ability in numerical problems
Essential Computer Mathematics - I	15 UNM 21	To introduce to the non-mathematics major students the basic concepts of set theory, relations, functions, algorithms, and complexity of algorithms
Test of Reasoning	15 USB 22	<ul style="list-style-type: none"> ❖ To train the students for competitive examinations. ❖ To expose the mental ability of the students.

Sequences and Series	15 UMT 31	<ul style="list-style-type: none"> ❖ To have deep knowledge of sequences and series ❖ To develop the application of the concepts ❖ To train the students to learn and apply mathematical analysis.
Bio-Statistics I	15 UMTA 31	<ol style="list-style-type: none"> 1. To introduce several statistical constants such as measures of dispersion Measures of skewness and measures of kurtosis 2. To understand the concept of correlation and regression 3. To study the concept of Index numbers and Times Series Analysis 4. To introduce and apply the theory of probability.
Mathematics for Competitive examinations	15 USB 32	<ul style="list-style-type: none"> ❖ To bring out the mental ability and skill of the students ❖ To introduce to the students, the basic concepts of Differentiation, Integration, set, functions, permutations and limits. ❖ To train the students for competitive and professional examinations
Real Analysis	15 UMT 41	<ul style="list-style-type: none"> ❖ To have deep knowledge of Real Line ❖ To develop the application of the concepts
Bio-Statistics II	15 UMTA 41	<ul style="list-style-type: none"> ❖ To introduce the concept of random variables and to understand some important distributions of random variables. ❖ To apply the various tests of significance (for large and small samples) for attributes ❖ To introduce the concept of analysis of variance
Analytical Geometry and Vector Calculus	15 UMTE 41	<ul style="list-style-type: none"> ❖ To introduce to the students the lines, planes, coplanar lines and skew lines ❖ To have an in-depth study of spheres and properties ❖ To give an initiation to cone and cylinder
Web Programming	15 UMTE 41	<ul style="list-style-type: none"> ❖ To introduce MS Office, and HTML ❖ To have an in depth study of web designing with PHP
Techniques in Reasoning	15 USB 41	<ul style="list-style-type: none"> ❖ To train the students for competitive examinations. ❖ To expose the mental ability and power of reasoning of the students

Abstract Algebra	15 UMT 51	To make students understand and apply the concepts of groups, rings, Euclidean rings, and polynomial rings.
Modern Analysis	15 UMT 52	<ul style="list-style-type: none"> ❖ To introduce the countability and uncountability of sets ❖ To introduce metric spaces ❖ To study more about complete, connected, and compact metric spaces.
ODE , PDE and Fourier Series	15 UMT 53	<ul style="list-style-type: none"> ❖ To learn the basic concepts of partial differential equations in first order and its applications. ❖ To have an in-depth study of Laplace transforms and fourier series and to apply the concepts in solving differential equations.
Number Theory	15 UMT 54	<ul style="list-style-type: none"> • To know more about numbers and their applications • To study the concepts of congruence and power residues. • To determine solutions of certain types of equations
Statics	15 UMT 54	<ul style="list-style-type: none"> ❖ To study about forces and laws of forces ❖ To study about moments, equilibrium of forces acting on a rigid body ❖ To study about friction and equilibrium of strings
C++		<ul style="list-style-type: none"> ❖ To introduce C++ ❖ To have an indepth study of functions, structures, arrays ❖ To introduce classes and objects ❖ To introduce inheritance overloading, polymorphism and data file operations
Linear Programming and Game Theory	15 UMTE 51	<ul style="list-style-type: none"> ❖ To gain knowldge of situations in which linear programming technique can be applied. ❖ To understand fundamental concepts and general mathematical structure of linear programming model ❖ To solve L.P problem by graphical method and simplex method. ❖ To understand the principles of two person zero sum games and to apply various methods to select and execute various optimal strategies to win the game.

Discrete Mathematics	15 UMTE 51	<ul style="list-style-type: none"> ❖ To study more about discrete mathematics ❖ To study these concepts in Computer Applications
Linear Algebra	15 UMT 61	To equip students with the ideas of vector space, basis, homomorphism, dual spaces, inner product spaces, linear transformations and matrices to pursue their higher studies.
Complex Analysis	15 UMT 62	<ul style="list-style-type: none"> ❖ To provide students with an introductory course in the theory of functions of a complex variable ❖ To give the essentials of continuity, derivatives, analytic functions, contour integrals, expanding function into series ❖ To equip students with in depth knowledge about residues at poles and evaluation of integrals.
Graph Theory	15 UMT 63	<ul style="list-style-type: none"> ❖ To learn basic concepts in graph theory ❖ To gain the skills to apply the theory to solve various mathematical and non mathematical problems.
Mechanics	15 UMT 64	<ul style="list-style-type: none"> ❖ To study about forces and laws of forces ❖ To study about moments, equilibrium of forces acting on a rigid body ❖ To study about friction and equilibrium of strings ❖ To introduce the laws of motion & its applications ❖ To introduce the motion of projectiles
Numerical Methods	15 UMTE 61	<ul style="list-style-type: none"> ❖ To provide numerical methods for finding the solution of some problems upto a desired degree of accuracy. ❖ To implement the numerical problems in computer languages. ❖ To train the students to be more competitive in computation
Astronomy	15 UMTE 61	<ul style="list-style-type: none"> ❖ To study about celestial bodies, celestial coordinates, earth, moon etc. ❖ To study about Kepler's laws and various types of eclipses.

Operations Research	15 UMTE 61	<ul style="list-style-type: none">❖ To introduce game theory and its applications❖ To introduce replacement, recruitment and promotion problems❖ To have an indepth study of inventory control (both deterministic and Probabilistic)❖ To understand and apply networks scheduling Pert / CPM.
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Syllabus -2015

Programme: M. Sc. Mathematics

Programme Code: PMT

Program Specific Outcomes:

Students will

1. develop an appreciation of the basic concepts of Algebra, Analysis, Differential Equations, Combinatorics, Differential Geometry, Optimization techniques, Statistics, Fuzzy logic and Java.
2. develop a quest for knowledge
3. develop an analytical thinking and taste for research.
4. learn many mathematical structures
5. construct and express logical arguments
6. develop generic skills

MSc Mathematics (2015-2018)

Name of the Course	Course Code	Course outcome
Algebra-I	15 PMT 11	<ul style="list-style-type: none"> ❖ To know the richness of the techniques of mathematics by way of studying class equation, sylow's theorem, direct products and finite abelian groups. ❖ To understand that a ring is a two operational system by going through different types of rings, Ideals, homomorphism of rings, factorization domains and inter wining them with interesting theorems .
Analysis-I	15 PMT 12	<ul style="list-style-type: none"> ❖ To provide deep understanding of the metric concepts in R^n. ❖ To learn more about continuity, differentiability and Riemann integration.
Number Theory	15 PMT 13	<ul style="list-style-type: none"> ❖ To learn more about numbers and their applications ❖ To study the concept of congruence and power residues ❖ To introduce quadratic residue and reciprocity ❖ To study more about arithmetic functions ❖ To determine solutions of certain type of equations
Mechanics	15 PMT 14	<ul style="list-style-type: none"> ❖ To introduce the mechanics of a particle, Lagrange's equations and simple applications <ul style="list-style-type: none"> ❖ To have an in-depth study of Hamilton's' Principle, its extension and simple applications. ❖ To learn more about two Body central force problem ❖ To study angular momentum, kinetic energy and moment of inertia ❖ To provide deep knowledge of Hamilton's equations.

Java	15 PMTE 11	To have a deep knowledge of JAVA language ❖ To study classes, objects and methods ❖ To learn more about inheritance, packages and interfaces ❖ To motivate the students to implement problems in JAVA.
MATLAB	15 PMTE 11	❖ To learn more the basic concepts of MATLAB. ❖ To motivate the students to solve mathematical problems using MATLAB.
Algebra II	15 PMT 21	To understand an extremely rich structure of field theory, algebra of linear transformations, and canonical forms.
Analysis-II	15 PMT 22	❖ To develop the knowledge of functions of several variables and vector differentiation. ❖ To introduce the Lebesgue measure and Lebesgue integration ❖ To apply the concepts in Functional Analysis and Harmonic Analysis
Ordinary Differential Equations	15 PMT 23	❖ To introduce the concept of Wronskian's for finding linearly independent solutions to ordinary differential equations. ❖ To discuss several methods for finding series solutions to differential equations.
Combinatorics	15 PMTE 24	❖ To introduce the basic concepts in combinatorics ❖ To apply the concepts in Number theory, Group Theory, Graph Theory and Combinatorics
Computer Oriented Numerical Methods	15 PMTE 21	❖
Mathematica	15 PMTE 21	❖ To learn more the basic concepts of Mathematica ❖ To motivate the students to solve mathematical problems using Mathematica
Calculus of Variations and Integral	15 PMTE 21	❖ To solve differential equations using variational methods. ❖ To introduce Fredholm & Volterra Integral equations and to study the methods of solving the above equations.

Equations		<ul style="list-style-type: none"> ❖ To introduce Fourier Transform.
Linear Algebra	15 PMT 21	<ul style="list-style-type: none"> ❖ To study the basic concepts of linear dependence, basis and homomorphism of vector spaces. ❖ To understand an extremely rich structure called algebra of linear transformations.
Topology	15 PMT 32	<ul style="list-style-type: none"> ❖ To introduce basic concepts of Topology ❖ To introduce product topology, metric topology and their applications ❖ To study more about connected and compact topological spaces ❖ To study the countability axioms and Urysohn Lemma ❖ To study Urysohn metrization theorem, Tietze Extension theorem and Tychonoff theorem ❖ To apply the concepts in Functional Analysis
Complex Analysis	15 PMT 33	<ul style="list-style-type: none"> ❖ To develop the basic concepts of complex analysis ❖ To apply the theory to find solutions of certain types of integrals. ❖ To know the concept of doubly periodic functions and important properties of elliptic functions.
Partial Differential Equations	15 PMTE 34	<ul style="list-style-type: none"> ❖ To introduce the basic concepts and the formation of partial differential equations. ❖ To introduce various methods to solve partial differential equations.
Statistics	15 PMTE 31	<ul style="list-style-type: none"> ❖ To understand the concept of a random variable and its probability distributions. ❖ To apply probability distribution (discrete and continuous) to a variety of problems in various diversified fields. ❖ To compute and interpret correlation coefficient ❖ To introduce the concept of convergence of random variables and to study central limit theorem ❖ To discuss the procedure for testing of hypothesis

Fuzzy Sets	15 PMTE 31	<ul style="list-style-type: none"> ❖ To introduce Fuzzy logic, Fuzzy sets, Operations on Fuzzy sets and Fuzzy arithmetic and relations ❖ To learn to apply Fuzzy concepts in other branches of mathematics
Advanced Java	15 PMTE 31	<ul style="list-style-type: none"> ❖ To have more understanding of JAVA programming ❖ To study Applet class and Event handling ❖ To introduce Awt and its applications and networking and servlets
Functional Analysis	15 PMT 41	<ul style="list-style-type: none"> ❖ To introduce the study of functions and Hahn-Banach Theorem and its applications. ❖ To introduce Hilbert spaces, conjugate spaces adjoint, self adjoint, normal and unitary operators. ❖ To introduce finite dimensional spectral theory and properties as well as the spectral theory
Differential Geometry	15 PMT 42	To study the characteristics of curves and surfaces in space using differential calculus and vector
Graph Theory	15 PMT 43	<ul style="list-style-type: none"> ❖ To provide an indepth knowledge of graph theoretical concepts ❖ To explore the various applications of graph theory ❖ To motivate the students to do research in discrete and applied mathematics
Applied and Algorithmic graph theory	15 PMTE 41	<ul style="list-style-type: none"> ❖ To make the students write efficient algorithms to solve problems using computers ❖ To learn certain graph theoretic algorithms and their complexities
Operations Research	15 PMTE 41	<ul style="list-style-type: none"> ❖ To understand the principles of two person zero sum games and to apply graphical method and use linear programming approach to compute the value of the game ❖ To understand PERT-CPM technique for project management and to construct network diagram. Time schedule Resource levelling with probability and cost consideration. ❖ To understand the meaning of inventory control as well as various forms and functional role of inventory.
Stochastic Process	15 PMTE 41	<ul style="list-style-type: none"> ❖ To understand the concept of stochastic processes and transformation of probability distributions. ❖ To study the structure of Markov chain and Markov processes

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| | <ul style="list-style-type: none">❖ To know about Renewal Processes and its applications❖ To study the behavior of Inventory, Queueing and Reliability theory in terms of stochastic processes |
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Syllabus-2015

Programme: M.Phil. Mathematics

Programme Code: MMT

Program Specific Outcomes:

Students will

1. develop an appreciation of the basic concepts of Algebra, Banach Algebra and Spectral Theory, and Analysis.
2. develop a taste for Research.
3. be equipped in analytical thinking abilities
4. gain the ability to work in a team
5. enhance their ability to construct and express logical arguments
6. be able to work in abstract terms to increase the clarity and efficiency of Algebra and Analysis

MPhil Mathematics (2015-2018)

Name of the Course	Course Code	Course outcome
Commutative Algebra	15 MMT 11	<ul style="list-style-type: none">• To study the basic concepts of Commutative Algebra.• To motivate the students to do research in Algebra .
Banach Algebra and Spectral Theory	15 MMT 12	<ul style="list-style-type: none">• To introduce Banach Algebra and Spectral Theory• To create interest in research
Research Methodology	12 MMT 13	<ul style="list-style-type: none">• To introduce domination in Graphs.• To teach how to apply graph theory in real life situations.• To create a taste in research

MBA (PSO)

PSOs of MBA are the graduates will learn various techniques, tools and skills of various aspects of management, more specifically Financial Planning and Management, Human Resource Management, Operations Planning and Management and Marketing Management that will enable them to compete and grow in the industrial sector.

MBA (2018)

Course	Course Outcome
<p align="center">PRINCIPLES AND PRACTICES OF MANAGEMENT</p>	<p>CO1 Students will illustrate the ways in which the practice of Management evolves as firms grow in size and provides a basic framework for understanding the roles, skills and functions of a Manager.</p> <p>CO2 Students will understand the principles, concepts and techniques that can be used in carrying out these functions</p> <p>CO3 Students will explore the tasks that today’s Managers perform and go deeper into the key areas that managers need to master in order to run successful and profitable businesses</p>
<p align="center">COMMUNICATION SKILLS FOR MANAGERS</p>	<p>CO1 Demonstrate critical and innovative thinking.</p> <p>CO2 Display competence in oral, written, and visual communication.</p> <p>CO3 Apply communication theories.</p> <p>CO4 Proficient in Business Communication</p>
<p align="center">ACCOUNTING FOR MANAGERS</p>	<p>CO1 Identify the basic accounting procedures adopted in a business firm.</p> <p>CO2 Understand the various types of financial statements prepared by business and their interpretation of the financial data and Develop methods and techniques of Financial Analysis along with Cash Flow Statement& Fund Flow Statement.</p> <p>CO3Differentiate the various accounting types such as Financial Accounting, Cost Accounting and Management Accounting used in business organizations.</p> <p>CO4Understand the different elements of Cost Sheet and types of cost of manufacturing industries.</p> <p>CO5 Learn the need for good Management Accounting system for taking managerial decisions through reports.</p> <p>CO6Understand the concept of Budgeting and Variance Analysis for control in a business organization.</p>
<p align="center">QUANTITATIVE METHODS</p>	<p>CO1 Collect, present and interpret data to solve business problems even if data is incomplete, inaccurate and partially unavailable.</p> <p>CO2 Use appropriate statistical tools and techniques to evaluate business problems and arrive at better decisions.</p> <p>CO3 Solve business level operational problems using various statistical models and forecasting techniques</p>

MANAGERIAL ECONOMICS	<p>CO1 Know the basic concepts of Managerial Economics.</p> <p>CO2 Understand the importance of Demand and Supply analysis.</p> <p>CO3 Learn the market structure and pricing policies.</p> <p>CO4 Know the Production theory and cost concept.</p>
INFORMATION COMMUNICATION TECHNOLOGY MANAGEMENT	<p>CO1 Learn the techniques of Microsoft word, Microsoft excel and its functions.</p> <p>CO2 Know the basic concepts of information system.</p> <p>CO3 Understand the role of Management Information Systems in achieving business competitive advantage</p> <p>CO4 Acquire the added value, risks and procedures in e-commerce.</p> <p>CO5 Demonstrate the knowledge on protecting system from cyber attacks</p>
PERSONAL GROWTH LAB	<p>CO1 Understand Personality theories and Approaches</p> <p>CO2 Discover their personality types traits, values, skills and interests</p> <p>CO3 Improve their self-image and self-esteem by tackling negative thought patterns and learn positive new ones</p> <p>CO4 Learn strategies for coping with stress, anger, and other negative emotions</p> <p>CO5 Harness self-discipline and make positive life changes</p> <p>CO6 Develop Positive attitude and analyse their personal values.</p> <p>CO7 Discover their interpersonal behavioural orientations and improve their interpersonal relationship</p>
PRODUCTIONS AND OPERATIONS MANAGEMENT	<p>CO1 Student would have known the factors to be considered during locating the plant.</p> <p>CO2 Students would have learnt to forecast demand</p> <p>CO3 Understand the factors to be considered before designing a product.</p> <p>CO4 Become aware of Where to buy Materials and How to keep record of materials and maintain it?</p> <p>CO5 Acquire knowledge on When and how much to replenish? (Inventory Management).</p>
ORGANIZATION BEHAVIOR	<p>CO1 Students will analyse and apply the different OB models in the organization they work for</p> <p>CO2 Students will identify the processes used in developing communication and resolving conflicts</p> <p>CO3 Students will know the group dynamics and demonstrate skills required for working in groups (team building)</p> <p>CO4 Students will identify the various leadership styles and the role of leaders in a decision</p>

	<p>making process.</p> <p>CO5 Students will understand the organizational culture and describe its dimensions</p> <p>CO6 Students will be able to implement of organizational change.</p>
ENTREPRENEURSHIP AND DEVELOPMENT	<p>CO1 Understand the basic concept of entrepreneurship</p> <p>CO2 Know the process of entrepreneurship</p> <p>CO3 Realize the importance of business plan for a business</p> <p>CO4 Understand the project planning for a business</p> <p>CO5 Understand the innovation for a business growth</p> <p>CO6 Learn the importance of entrepreneurship for economic development</p>
RESEARCH METHODOLOGY	<p>CO1 Understand the basic concepts of research, the process of research and research designs.</p> <p>CO2 Review the relevant literature, formulate a research problem, formulate the objectives of the study, identify the variables and make them measurable formulate hypotheses if needed.</p> <p>CO3 Learn different methods of research, both qualitative and quantitative and learn different methods of data collection</p> <p>CO4 Identify an appropriate research design, prepare instruments of data collection, using the variables identified and method of data collection</p> <p>CO5 Analyse the data, both quantitative and qualitative, using SPSS or any other method and prepare a quality research report.</p> <p>CO6 Write a research proposal</p>
FINANCIAL MANAGEMENT	<p>CO1 Know the significance of Financial Management and the Role of Finance Manager.</p> <p>CO2 Understand Capital Budgeting evaluation techniques.</p> <p>CO3 Identify the various forms of capital structures and how to ascertain the Cost of Capital.</p> <p>CO4 Understand the need for maintaining adequate Working Capital.</p> <p>CO5 Learn the Dividend Theories and also Value Creation for a business firm will be learnt by the students.</p>
MARKETING MANAGEMENT	<p>CO1 Students will Understand the marketing concepts</p> <p>CO2 Will acquire knowledge of marketing environment and consumers</p> <p>CO3 Will gain skills to design and implement marketing activities</p>
HUMAN RESOURCE MANAGEMENT	<p>CO1 Know the basic concepts and functions of human resource management.</p> <p>CO2 Understand the importance of Human Resource Planning and methods of Job Analysis.</p> <p>CO3 Learn the process of recruitment, selection and placement.</p>

	<p>CO4 Know the various methods of training and development.</p> <p>CO5 Learn the various compensation and appraisal methods.</p>
BANKING AND INSURANCE PRACTICES	<p>CO1To acquaint the candidates with the different aspects of Banking Operations, loan policies and also to give the candidate an insight into Asset Liability Management.</p> <p>CO2 To focus on Modern Banking Trends and Relationship Marketing</p> <p>CO3 To introduce the various aspects of Non-life & life insurance, Principles in Life Insurance Contract and Recent Trends in life Insurance.</p> <p>CO4 To enable the students become employable in Banking and Insurance Sectors.</p>

MBA (2017)

Course	Course Outcome
BASIC MANAGERIAL SKILLS & COMPETENCE-I	<p>CO1 Students shall evaluate his/her attitude and behaviour</p> <p>CO2 Students can assess their level of communication skills and development in managerial communication</p> <p>CO3 Students shall understand his/her competency level</p>
ORGANIZATION BEHAVIOUR	<p>CO1 Students will gain knowledge of managing organizational resources</p> <p>CO2 Students shall understand the human behaviour in work place</p> <p>CO3 Students will acquire insights on organizational leadership.</p>
ACCOUNTING FOR MANAGERS	<p>CO1 Students will understand the key Financial, Cost and Management accounting concepts.</p> <p>CO2 Analyze, interpret and understand the financial statements.</p> <p>CO3 Ascertain the cost of a product or service from the internal records of an organization.</p>
	CO1 Students shall make Managerial decisions using Quantitative Methods

QUANTITATIVE METHODS	<p>CO2 Students shall apply Theoretical Probability Distributions in Business</p> <p>CO3 Projection and understanding trend is feasible by learning Correlation, Regression and Trend Analysis.</p>
MANAGERIAL ECONOMICS	<p>CO1 Students will learn the basic economic principles and concepts.</p> <p>CO2 Students will know the role of individual firms and industry.</p> <p>CO3 Become capable of implementing Macroeconomics concepts.</p>
MARKETING MANAGEMENT	<p>CO1 Students will Understand the marketing concepts</p> <p>CO2 Will acquire knowledge of marketing environment and consumers</p> <p>CO3 Will gain skills to design and implement marketing activities</p>
INFORMATION COMMUNICATION TECHNOLOGY MANAGEMENT	<p>CO1 Learn the techniques of Microsoft word, Microsoft excel and its functions.</p> <p>CO2 Know the basic concepts of information system.</p> <p>CO3 Understand the role of Management Information Systems in achieving business competitive advantage</p> <p>CO4 Acquire the added value, risks and procedures in e-commerce.</p> <p>CO5 Demonstrate the knowledge on protecting system from cyber attacks</p>
PRODUCTIONS AND OPERATIONS MANAGEMENT	<p>CO1 Student would have known the factors to be considered during locating the plant.</p> <p>CO2 Students would have learnt to forecast demand</p> <p>CO3 Understand the factors to be considered before designing a product.</p> <p>CO4 Become aware of Where to buy Materials and How to keep record of materials and maintain it?</p> <p>CO5 Acquire knowledge on When and how much to replenish? (Inventory Management).</p>
BUSINESS ENVIRONMENT AND LAW	<p>CO1 Students shall assess the business environment and various environmental issues.</p> <p>CO2 Will have developed the skill of analyzing, interpreting and understanding the business environment and legal aspects.</p> <p>CO3 Students will know the Company's Act and Factory Law.</p>

ENTREPRENEURSHIP AND DEVELOPMENT	CO1 Students will have the entrepreneurial competencies and skills required for starting and sustaining a successful enterprise. CO2 Students can make out Business plans. CO3 Students can discern the benefits of social entrepreneurship.
RESEARCH METHODOLOGY	CO1 Students become familiar with the basic concepts of Business Research CO2 Students can realize the need for Research in the functional areas of management CO3 Students become capable of applying appropriate analysis tools in research.
FINANCIAL MANAGEMENT	CO1 Students will know the roles and functions of Managing finance. CO2 Students will understand the techniques of Capital Budgeting. CO3 Computation of Cost of Capital. CO4 Management of Working Capital and taking Dividend Decisions.
HUMAN RESOURCE MANAGEMENT	CO1 Students will acquire insights on the basic concepts of human resource management and strategic human resource management. CO2 Students become aware of human resource planning, the methods of recruitment and selection. CO3 Students will realize the need for training and development and the techniques involved in the process of performance appraisal. CO4 The various types of employee benefits and services.
SPSS	CO1 Students will gain insights on the basics of research design and quantitative analysis. CO2 Students will become capable of analyzing and evaluating statistical data. CO3 Formulation of theory and derivation of hypotheses can be performed by the students. CO4 Students shall analyze and interpret the statistical results.
BANKING AND INSURANCE PRACTICES	CO1 Students will acquaint the different aspects of Banking Operations, loan policies and also gives the candidate an insight into Asset Liability Management. CO2 Students will understand Modern Banking Trends and Relationship Marketing CO3 The various aspects of Non-life & life insurance, principles in Life Insurance Contract and Recent Trends in life Insurance are understood by the students. CO4 Students become employable in Banking and Insurance Sectors.

STRATEGIC MANAGEMENT	<ul style="list-style-type: none"> • Students will understand the basic concepts of Strategic Management process. • Students will gain focus on how firms formulate, implement and evaluate corporate business strategies. • Mastery over the tools used to analyze the industry and competitors. • Students will evaluate and implement strategies to sustain a firm's competitive advantage
BUSINESS ETHICS	<p>CO1 Students will become capable of appraising the ethical issues in business functions and managerial decisions.</p> <p>CO2 Students will understand the corporate social responsibilities of business.</p> <p>CO3 Students will know the ethical imbalance in International Business arrangements.</p>
SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	<p>CO1 Students will know the types of investment</p> <p>CO2 Students will understand the risk-return trade-off in different types of securities</p> <p>CO3 Students can estimate the present and future value of a security by using fundamental and technical analysis</p> <p>CO4 Students become aware of the concepts of portfolio management and the techniques for measuring the performance of portfolios</p>
MERCHANT BANKING AND FINANCIAL SERVICES	<p>CO1 Students will understand the modes of issuing securities</p> <p>CO2 Students will know the financial evaluation technique of leasing and hire purchasing</p> <p>CO3 Types of Financial Services.</p>
CONSUMER BEHAVIOR	<p>CO1 Students gain understanding of consumers' Behaviour to formulate marketing strategies.</p> <p>CO2 Students will understand the Internal & external influences in the consumption process.</p> <p>CO3 Students will comprehend the consumer decision making process.</p>
RURAL MARKETING	<p>CO1 Students will gain knowledge of rural market and rural consumers</p> <p>CO2 Students will know the rural specific marketing strategies</p> <p>CO3 Students will develop rural offering and implement rural marketing campaign</p>
INDUSTRIAL RELATIONS AND LABOUR LAWS	<p>CO1 Students will understand the basic concepts of Industrial Relations.</p> <p>CO2 Students will realize the importance of Trade Union and Collective Bargaining.</p> <p>CO3 Students will know the recent amendments in different labor enactment.</p>
TRAINING AND DEVELOPMENT	<p>CO1 The concept of training, needs, and its importance is realized by the students.</p> <p>CO2 Students become capable of designing a training programme for the group</p> <p>CO3 Students will gain insights on learning process and training need assessment.</p>

MARKETING TRENDS AND PRACTICE	<p>CO1 Students will know the latest trends in marketing.</p> <p>CO2 Students will get insights on the sales management in business.</p> <p>CO3 Students understand the method of planning an advertising campaign.</p> <p>CO4 Students know how to assess the effectiveness of advertisements.</p> <p>CO5 They will learn the online marketing.</p>
INTERNATIONAL BUSINESS MANAGEMENT	<p>CO1 Students will know the way of managing people across cultures in business</p> <p>CO2 They will become aware of the concepts, theories and approaches of International business</p> <p>CO3 The process of global business and practical steps involved in international business are understood by the students.</p>
TOTAL QUALITY MANAGEMENT	<p>CO1 Students will know the concepts of Quality, Contributions of Quality gurus, Six sigma, BPR.</p> <p>CO2 Students will understand the tools used for Quality Management and Quality systems.</p>
FINANCIAL DERIVATIVES	<p>CO1 Students will gain the concepts of various derivative instruments used in the financial and commodity markets.</p> <p>CO2 The knowledge of managing investment risks by using suitable derivative instruments are understood by the students.</p> <p>CO3 Students will gain insights on the procedures and systems being followed in derivative markets in India.</p>
INTERNATIONAL TRADE FINANCE	<p>CO1 Students will know the basis of International Trade</p> <p>CO2 Students will become familiar with Export-Import Finance and Forex Management</p> <p>CO3 Students will become aware of the Documentation involved in International Trade.</p>
BRAND MANAGEMENT	<p>CO1 Students will understand the methods of managing brands and strategies for brand management</p> <p>CO2 Students will gain knowledge on global practices on branding</p>
SERVICES MARKETING	<p>CO1 Students will learn the evolving marketing strategies to meet the unique challenges and opportunities of the services sector.</p> <p>CO2 Students will become capable developing a new service process.</p> <p>CO3 Students will understand the Customer relationship management in service sector.</p>
CHANGE MANAGEMENT	<p>CO1 Students will gain an overview of organizational change.</p> <p>CO2 Students will understand the role of Change management in OD.</p> <p>CO3 Students will gain insights on Managing change at the Global level.</p>
TALENT MANAGEMENT	

	<p>CO1 Students will get to know the importance and application of Talent Management.</p> <p>CO2 Students will become capable of using Talent Management via Human Resource Information system.</p>
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MBA (2014)

Course	Course Outcome
BASIC MANAGERIAL SKILLS & COMPETENCE-I	<p>CO1 Students shall evaluate his/her attitude and behaviour</p> <p>CO2 Students can assess their level of communication skills and development in managerial communication</p> <p>CO3 Students shall understand his/her competency level</p>
ORGANIZATION BEHAVIOUR	<p>CO1 Students will gain knowledge of managing organizational resources</p> <p>CO2 Students shall understand the human behaviour in work place</p> <p>CO3 Students will acquire insights on organizational leadership.</p>
ACCOUNTING FOR MANAGERS	<p>CO1 Students will understand the key Financial, Cost and Management accounting concepts.</p> <p>CO2 Analyze, interpret and understand the financial statements.</p> <p>CO3 Ascertain the cost of a product or service from the internal records of an organization.</p>
QUANTITATIVE METHODS	<p>CO1 Students shall make Managerial decisions using Quantitative Methods</p> <p>CO2 Students shall apply Theoretical Probability Distributions in Business</p> <p>CO3 Projection and understanding trend is feasible by learning Correlation, Regression and Trend Analysis.</p>
MANAGERIAL ECONOMICS	<p>CO1 Students will learn the basic economic principles and concepts.</p> <p>CO2 Students will know the role of individual firms and industry.</p> <p>CO3 Become capable of implementing Macroeconomics concepts.</p>
MARKETING	<p>CO1 Students will Understand the marketing concepts</p> <p>CO2 Will acquire knowledge of marketing environment and consumers</p>

MANAGEMENT	CO3 Will gain skills to design and implement marketing activities
INFORMATION COMMUNICATION TECHNOLOGY MANAGEMENT	CO1 Learn the techniques of Microsoft word, Microsoft excel and its functions. CO2 Know the basic concepts of information system. CO3 Understand the role of Management Information Systems in achieving business competitive advantage CO4 Acquire the added value, risks and procedures in e-commerce. CO5 Demonstrate the knowledge on protecting system from cyber attacks
PRODUCTIONS AND OPERATIONS MANAGEMENT	CO1 Student would have known the factors to be considered during locating the plant. CO2 Students would have learnt to forecast demand CO3 Understand the factors to be considered before designing a product. CO4 Become aware of Where to buy Materials and How to keep record of materials and maintain it? CO5 Acquire knowledge on When and how much to replenish? (Inventory Management).
BUSINESS ENVIRONMENT AND LAW	CO1 Students shall assess the business environment and various environmental issues. CO2 Will have developed the skill of analyzing, interpreting and understanding the business environment and legal aspects. CO3 Students will know the Company's Act and Factory Law.
BUSINESS ETHICS	CO1 Students will become capable of appraising the ethical issues in business functions and managerial decisions. CO2 Students will understand the corporate social responsibilities of business. CO3 Students will know the ethical imbalance in International Business arrangements.
RESEARCH METHODOLOGY	CO1 Students become familiar with the basic concepts of Business Research CO2 Students can realize the need for Research in the functional areas of management CO3 Students become capable of applying appropriate analysis tools in research.

FINANCIAL MANAGEMENT	CO1 Students will know the roles and functions of Managing finance. CO2 Students will understand the techniques of Capital Budgeting. CO3 Computation of Cost of Capital. CO4 Management of Working Capital and taking Dividend Decisions.
HUMAN RESOURCE MANAGEMENT	CO1 Students will acquire insights on the basic concepts of human resource management and strategic human resource management. CO2 Students become aware of human resource planning, the methods of recruitment and selection. CO3 Students will realize the need for training and development and the techniques involved in the process of performance appraisal. CO4 The various types of employee benefits and services.
STRATEGIC MANAGEMENT	CO1 Students will understand the basic concepts of Strategic Management process. CO2 Students will gain focus on how firms formulate, implement and evaluate corporate business strategies. CO3 Mastery over the tools used to analyze the industry and competitors. CO4 Students will evaluate and implement strategies to sustain a firm's competitive advantage
ENTREPRENEURSHIP AND DEVELOPMENT	CO1 Students will have the entrepreneurial competencies and skills required for starting and sustaining a successful enterprise. CO2 Students can make out Business plans. CO3 Students can discern the benefits of social entrepreneurship.
SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	CO1 Students will know the types of investment CO2 Students will understand the risk-return trade-off in different types of securities CO3 Students can estimate the present and future value of a security by using fundamental and technical analysis CO4 Students become aware of the concepts of portfolio management and the techniques for measuring the performance of portfolios
STRATEGIC FINANCIAL MANAGEMENT	CO1 Students will understand the Emerging methods of valuing business organizations.

	<p>CO2 Students will know the role of financial services in India</p> <p>CO3 Students can measure the financial performance and the legal provisions of Corporate Governance</p>
CONSUMER BEHAVIOR	<p>CO1 Students gain understanding of consumers' Behaviour to formulate marketing strategies.</p> <p>CO2 Students will understand the Internal & external influences in the consumption process.</p> <p>CO3 Students will comprehend the consumer decision making process.</p>
RURAL MARKETING	<p>CO1 Students will gain knowledge of rural market and rural consumers</p> <p>CO2 Students will know the rural specific marketing strategies</p> <p>CO3 Students will develop rural offering and implement rural marketing campaign</p>
INDUSTRIAL RELATIONS AND LABOUR LAWS	<p>CO1 Students will understand the basic concepts of Industrial Relations.</p> <p>CO2 Students will realize the importance of Trade Union and Collective Bargaining.</p> <p>CO3 Students will know the recent amendments in different labor enactment.</p>
TRAINING AND DEVELOPMENT	<p>CO1 The concept of training, needs, and its importance is realized by the students.</p> <p>CO2 Students become capable of designing a training programme for the group</p> <p>CO3 Students will gain insights on learning process and training need assessment.</p>
SUPPLY CHAIN MANAGEMENT	<p>CO1 Students will understand the importance of major decisions in supply chain management for gaining competitive advantage.</p> <p>CO2 Students will be able to build and manage a competitive supply chain using strategies, models, techniques and information technology.</p>
MATERIALS MANAGEMENT	<p>CO1 Students will understand the importance of Considering material management for efficiency.</p> <p>CO2 Students will know how to effectively utilise the materials in manufacturing and service organisation.</p>
SPSS LAB	<p>CO1 Students will gain insights on the basics of research design and quantitative analysis.</p> <p>CO2 Students will become capable of analysing and evaluating statistical data.</p> <p>CO3 Formulation of theory and derivation of hypotheses can be performed by the students.</p> <p>CO4 Students shall analyse and interpret the statistical results.</p>
INTERNATIONAL BUSINESS MANAGEMENT	<p>CO1 Students will know the way of managing people across cultures in business</p> <p>CO2 They will become aware of the concepts, theories and approaches of International business</p> <p>CO3 The process of global business and practical steps involved in international business are understood by the students.</p>
TOTAL QUALITY MANAGEMENT	<p>CO1 Students will know the concepts of Quality, Contributions of Quality gurus, Six sigma, BPR.</p> <p>CO2 Students will understand the tools used for Quality Management and Quality systems.</p>

FINANCIAL DERIVATIVES	<p>CO1 Students will gain the concepts of various derivative instruments used in the financial and commodity markets.</p> <p>CO2 The knowledge of managing investment risks by using suitable derivative instruments are understood by the students.</p> <p>CO3 Students will gain insights on the procedures and systems being followed in derivative markets in India.</p>
INTERNATIONAL FINANCIAL MANAGEMENT	<p>CO1 Students will learn the International Financial Operations and Foreign Exchange Market</p> <p>CO2 Students will know the Investment functions of MNCs</p>
RETAIL MANAGEMENT	<p>CO1 Students will gain understanding of retail industry in India and in world and various retail formats.</p> <p>CO2 Gain knowledge of retail operations</p> <p>CO3 Become skilled to design and manage a retail store.</p>
SERVICES MARKETING	<p>CO1 Students will learn the evolving marketing strategies to meet the unique challenges and opportunities of the services sector.</p> <p>CO2 Students will become capable developing a new service process.</p> <p>CO3 Students will understand the Customer relationship management in service sector.</p>
CHANGE MANAGEMENT	<p>CO1 Students will gain an overview of organizational change.</p> <p>CO2 Students will understand the role of Change management in OD.</p> <p>CO3 Students will gain insights on Managing change at the Global level.</p>
TALENT MANAGEMENT	<p>CO1 Students will get to know the importance and application of Talent Management.</p> <p>CO2 Students will become capable of using Talent Management via Human Resource Information system.</p>
LOGISTICS MANAGEMENT	<p>CO1 Students will realize the need and importance of logistics in product flow.</p> <p>CO2 Students will learn the efficient method of moving products with optimization of time and cost.</p>
PROJECT MANAGEMENT	<p>CO1 Students will manage the scope, cost, timing, and quality of the project</p> <p>CO2 Students will know how to apply project management principles in business situations to optimize resource utilization and time optimization.</p> <p>CO3 Students will become capable of identifying project goals, constraints, deliverables, performance criteria, control needs, and resource requirements</p>

MBA (2014)

Course	Course Outcome
BASIC MANAGERIAL SKILLS & COMPETENCE- I	CO1 Students shall evaluate his/her attitude and behaviour CO2 Students can assess their level of communication skills and development in managerial communication CO3 Students shall understand his/her competency level
ORGANIZATION BEHAVIOUR	CO1 Students will gain knowledge of managing organizational resources CO2 Students shall understand the human behaviour in work place CO3 Students will acquire insights on organizational leadership.
ACCOUNTING FOR MANAGERS	CO1 Students will understand the key Financial, Cost and Management accounting concepts. CO2 Analyze, interpret and understand the financial statements. CO3 Ascertain the cost of a product or service from the internal records of an organization.
QUANTITTIVE METHODS	CO1 Students shall make Managerial decisions using Quantitative Methods CO2 Students shall apply Theoretical Probability Distributions in Business CO3 Projection and understanding trend is feasible by learning Correlation, Regression and Trend Analysis.
MANAGERIAL ECONOMICS	CO1 Students will learn the basic economic principles and concepts. CO2 Students will know the role of individual firms and industry. CO3 Become capable of implementing Macroeconomics concepts.
MARKETING MANAGEMENT	CO1 Students will Understand the marketing concepts CO2 Will acquire knowledge of marketing environment and consumers CO3 Will gain skills to design and implement marketing activities
INFORMATION COMMUNICATION TECHNOLOGY	CO1 Learn the techniques of Microsoft word, Microsoft excel and its functions. CO2 Know the basic concepts of information system. CO3 Understand the role of Management Information Systems in achieving business competitive advantage CO4 Acquire the added value, risks and procedures in e-commerce.

MANAGEMENT	CO5 Demonstrate the knowledge on protecting system from cyber attacks
PRODUCTIONS AND OPERATIONS MANAGEMENT	CO1 Student would have known the factors to be considered during locating the plant. CO2 Students would have learnt to forecast demand CO3 Understand the factors to be considered before designing a product. CO4 Become aware of Where to buy Materials and How to keep record of materials and maintain it? CO5 Acquire knowledge on When and how much to replenish? (Inventory Management).
BUSINESS ENVIRONMENT AND LAW	CO1 Students shall assess the business environment and various environmental issues. CO2 Will have developed the skill of analyzing, interpreting and understanding the business environment and legal aspects. CO3 Students will know the Company's Act and Factory Law.
BUSINESS ETHICS	CO1 Students will become capable of appraising the ethical issues in business functions and managerial decisions. CO2 Students will understand the corporate social responsibilities of business. CO3 Students will know the ethical imbalance in International Business arrangements.
RESEARCH METHODOLOGY	CO1 Students become familiar with the basic concepts of Business Research CO2 Students can realize the need for Research in the functional areas of management CO3 Students become capable of applying appropriate analysis tools in research.
FINANCIAL MANAGEMENT	CO1 Students will know the roles and functions of Managing finance. CO2 Students will understand the techniques of Capital Budgeting. CO3 Computation of Cost of Capital. CO4 Management of Working Capital and taking Dividend Decisions.
HUMAN RESOURCE MANAGEMENT	CO1 Students will acquire insights on the basic concepts of human resource management and strategic human resource management.

	<p>CO2 Students become aware of human resource planning, the methods of recruitment and selection.</p> <p>CO3 Students will realize the need for training and development and the techniques involved in the process of performance appraisal.</p> <p>CO4 The various types of employee benefits and services.</p>
STRATEGIC MANAGEMENT	<p>CO1 Students will understand the basic concepts of Strategic Management process.</p> <p>CO2 Students will gain focus on how firms formulate, implement and evaluate corporate business strategies.</p> <p>CO3 Mastery over the tools used to analyze the industry and competitors.</p> <p>CO4 Students will evaluate and implement strategies to sustain a firm's competitive advantage</p>
ENTREPRENEURSHIP AND DEVELOPMENT	<p>CO1 Students will have the entrepreneurial competencies and skills required for starting and sustaining a successful enterprise.</p> <p>CO2 Students can make out Business plans.</p> <p>CO3 Students can discern the benefits of social entrepreneurship.</p>
SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	<p>CO1 Students will know the types of investment</p> <p>CO2 Students will understand the risk-return trade-off in different types of securities</p> <p>CO3 Students can estimate the present and future value of a security by using fundamental and technical analysis</p> <p>CO4 Students become aware of the concepts of portfolio management and the techniques for measuring the performance of portfolios</p>
STRATEGIC FINANCIAL MANAGEMENT	<p>CO1 Students will understand the Emerging methods of valuing business organizations.</p> <p>CO2 Students will know the role of financial services in India</p> <p>CO3 Students can measure the financial performance and the legal provisions of Corporate Governance</p>
CONSUMER BEHAVIOR	<p>CO1 Students gain understanding of consumers' Behaviour to formulate marketing strategies.</p> <p>CO2 Students will understand the Internal & external influences in the consumption process.</p> <p>CO3 Students will comprehend the consumer decision making process.</p>
RURAL MARKETING	<p>CO1 Students will gain knowledge of rural market and rural consumers</p> <p>CO2 Students will know the rural specific marketing strategies</p>

	CO3 Students will develop rural offering and implement rural marketing campaign
INDUSTRIAL RELATIONS AND LABOUR LAWS	CO1 Students will understand the basic concepts of Industrial Relations. CO2 Students will realize the importance of Trade Union and Collective Bargaining. CO3 Students will know the recent amendments in different labor enactment.
TRAINING AND DEVELOPMENT	CO1 The concept of training, needs, and its importance is realized by the students. CO2 Students become capable of designing a training programme for the group CO3 Students will gain insights on learning process and training need assessment.
SUPPLY CHAIN MANAGEMENT	CO1 Students will understand the importance of major decisions in supply chain management for gaining competitive advantage. CO2 Students will be able to build and manage a competitive supply chain using strategies, models, techniques and information technology.
MATERIALS MANAGEMENT	CO1 Students will understand the importance of Considering material management for efficiency. CO2 Students will know how to effectively utilise the materials in manufacturing and service organisation.
SPSS LAB	CO1 Students will gain insights on the basics of research design and quantitative analysis. CO2 Students will become capable of analysing and evaluating statistical data. CO3 Formulation of theory and derivation of hypotheses can be performed by the students. CO4 Students shall analyse and interpret the statistical results.
INTERNATIONAL BUSINESS MANAGEMENT	CO1 Students will know the way of managing people across cultures in business CO2 They will become aware of the concepts, theories and approaches of International business CO3 The process of global business and practical steps involved in international business are understood by the students.
TOTAL QUALITY MANAGEMENT	CO1 Students will know the concepts of Quality, Contributions of Quality gurus, Six sigma, BPR. CO2 Students will understand the tools used for Quality Management and Quality systems.
FINANCIAL DERIVATIVES	CO1 Students will gain the concepts of various derivative instruments used in the financial and commodity markets. CO2 The knowledge of managing investment risks by using suitable derivative instruments are understood by the students. CO3 Students will gain insights on the procedures and systems being followed in derivative markets in India.
INTERNATIONAL FINANCIAL MANAGEMENT	CO1 Students will learn the International Financial Operations and Foreign Exchange Market CO2 Students will know the Investment functions of MNCs
RETAIL	CO1 Students will gain understanding of retail industry in India and in world and various retail formats.

MANAGEMENT	CO2 Gain knowledge of retail operations CO3 Become skilled to design and manage a retail store.
SERVICES MARKETING	CO1 Students will learn the evolving marketing strategies to meet the unique challenges and opportunities of the services sector. CO2 Students will become capable developing a new service process. CO3 Students will understand the Customer relationship management in service sector.
CHANGE MANAGEMENT	CO1 Students will gain an overview of organizational change. CO2 Students will understand the role of Change management in OD. CO3 Students will gain insights on Managing change at the Global level.
TALENT MANAGEMENT	CO1 Students will get to know the importance and application of Talent Management. CO2 Students will become capable of using Talent Management via Human Resource Information system.
LOGISTICS MANAGEMENT	CO1 Students will realize the need and importance of logistics in product flow. CO2 Students will learn the efficient method of moving products with optimization of time and cost.
PROJECT MANAGEMENT	CO1 Students will manage the scope, cost, timing, and quality of the project CO2 Students will know how to apply project management principles in business situations to optimize resource utilization and time optimization. CO3 Students will become capable of identifying project goals, constraints, deliverables, performance criteria, control needs, and resource requirements

MBA (2012)

Course	Course Outcome
PRINCIPLES OF MANAGEMENT AND ORGANIZATIONAL BEHAVIOR - 12PBA 1101	CO1 Familiarizes the students with the basic concepts, functions, and principles of Management. CO2 Students will know the importance and the basic elements of organizational behavior. CO3 Students will imbibe the values of individual and group behavior in Management. CO4 Students will to learn the different styles of leadership.

<p style="text-align: center;">QUANTITTIVE METHODS - 12PBA 1102</p>	<p>CO1 Students shall make Managerial decisions using Quantitative Methods CO2 Students shall apply Theoretical Probability Distributions in Business CO3 Projection and understanding trend is feasible by learning Correlation, Regression and Trend Analysis.</p>
<p style="text-align: center;">MANAGERIAL ECONOMICS - 12PBA 1103</p>	<p>CO1 Students will learn the basic economic principles and concepts. CO2 Students will know the role of individual firms and industry. CO3 Become capable of implementing Macroeconomics concepts.</p>
<p style="text-align: center;">Soft Skills For Managers - 12PBA1104</p>	<p>CO1 Students will learn the soft skills. CO2 Students will know the significance of communication skills. CO3 Become capable of developing managerial skills for business.</p>
<p style="text-align: center;">ACCOUNTING FOR MANAGERS - 12PBA1105</p>	<p>CO1 Students will understand the key Financial, Cost and Management accounting concepts. CO2 Analyze, interpret and understand the financial statements. CO3 Ascertain the cost of a product or service from the internal records of an organization.</p>
<p style="text-align: center;">IT SKILLS FOR MANAGERS - 12 PBA 1106</p>	<p>CO1 To impart to the students the basic elements of MS-Excel 2010 CO2 To make them Understand the different models used in different areas of like Finance, Marketing and HR using MS-Excel 2010. CO3 To help them to investigate, analyze and construct databases and processing them through Oracle SQL.</p>
<p style="text-align: center;">ENTREPRENEURSHIP AND PROJECT PLANNING</p>	<p>CO1 Students will have the entrepreneurial competencies and skills required for starting and sustaining a successful enterprise. CO2 Students can make out Business plans. CO3 Students can discern the benefits of social entrepreneurship.</p>

- 12 PBA 2101	
FINANCIAL MANAGEMENT - 12PBA 2102	CO1 Students will know the roles and functions of Managing finance. CO2 Students will understand the techniques of Capital Budgeting. CO3 Computation of Cost of Capital. CO4 Management of Working Capital and taking Dividend Decisions.
MARKETING MANAGEMENT - 12PBA2103	CO1 Students will Understand the marketing concepts CO2 Will acquire knowledge of marketing environment and consumers CO3 Will gain skills to design and implement marketing activities
PRODUCTION AND OPERATIONS MANAGEMENT - 12PBA 2104	CO1 Student would have known the factors to be considered during locating the plant. CO2 Students would have learnt to forecast demand CO3 Understand the factors to be considered before designing a product. CO4 Become aware of Where to buy Materials and How to keep record of materials and maintain it? CO5 Acquire knowledge on When and how much to replenish? (Inventory Management).
MANAGEMENT INFORMATION SYSTEMS - 12PBA 2105	CO1 Learn the techniques of Microsoft word, Microsoft excel and its functions. CO2 Know the basic concepts of information system. CO3 Understand the role of Management Information Systems in achieving business competitive advantage CO4 Demonstrate the knowledge on protecting system from cyber attacks
HUMAN RESOURCE MANAGEMENT - 12PBA 2106	CO1 Students will acquire insights on the basic concepts of human resource management and strategic human resource management. CO2 Students become aware of human resource planning, the methods of recruitment and selection. CO3 Students will realize the need for training and development and the techniques involved in the process of performance appraisal. CO4 The various types of employee benefits and services.

<p>STRATEGIC MANAGEMENT - 12PBA 3101</p>	<p>CO1 Students will understand the basic concepts of Strategic Management process. CO2 Students will gain focus on how firms formulate, implement and evaluate corporate business strategies. CO3 Mastery over the tools used to analyze the industry and competitors. CO4 Students will evaluate and implement strategies to sustain a firm's competitive advantage</p>
<p>RESEARCH METHODOLOGY - 12 PBA 3102</p>	<p>CO1 Students become familiar with the basic concepts of Business Research CO2 Students can realize the need for Research in the functional areas of management CO3 Students become capable of applying appropriate analysis tools in research.</p>
<p>LEGAL ASPECTS OF BUSINESS - 12PBA 3403</p>	<p>CO1 Students will be aware of the Contract Act 1872 CO2 Imparts the legal applications of various acts in business. CO3 Students will understand the essentials of Companies Act.</p>
<p>SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT - 12PBA 3311</p>	<p>CO1 Students will know the types of investment CO2 Students will understand the risk-return trade-off in different types of securities CO3 Students can estimate the present and future value of a security by using fundamental and technical analysis CO4 Students become aware of the concepts of portfolio management and the techniques for measuring the performance of portfolios</p>
<p>STRATEGIC FINANCIAL MANAGEMENT - 12PBA 3314</p>	<p>CO1 Students will understand the Emerging methods of valuing business organizations. CO2 Students will know the role of financial services in India CO3 Students can measure the financial performance and the legal provisions of Corporate Governance</p>
<p>CONSUMER BEHAVIOR AND MARKETING RESEARCH - 12PBA 3323</p>	<p>CO1 Students gain understanding of consumers' Behaviour to formulate marketing strategies. CO2 Students will understand the Internal & external influences in the consumption process. CO3 Students will comprehend the consumer decision making process.</p>
<p>RURAL MARKETING -</p>	<p>CO1 Students will gain knowledge of rural market and rural consumers CO2 Students will know the rural specific marketing strategies</p>

12PBA 3325	CO3 Students will develop rural offering and implement rural marketing campaign
TRAINING FOR RESULTS - 12PBA3331	CO1 Students will understand the concept of training, needs, and its importance. CO2 Students will design training programme for the group. CO3 Students become capable of learning process and the training need assessment. CO4 Students will know the different methods and approaches to training.
STRATEGIC HUMAN RESOURCE MANAGEMENT - 12PBA3333	CO1 To introduce to the students the emerging field of strategic human resource management. CO2 To help the students to understand the nature of the changing global business environment and the role of HR. CO3 To enable the students to appreciate the various methods and techniques of Strategic Human Resource Management.
INTERNATIONAL BUSINESS - 12PBA4101	CO1 Students will know the way of managing people across cultures in business CO2 They will become aware of the concepts, theories and approaches of International business CO3 The process of global business and practical steps involved in international business are understood by the students.
BUSINESS ETHICS - 12PBA4102	CO1 Students will become capable of appraising the ethical issues in business functions and managerial decisions. CO2 Students will understand the corporate social responsibilities of business. CO3 Students will know the ethical imbalance in International Business arrangements.
INTERNATIONAL FINANCIAL MANAGEMENT - 12PBA4316	CO1 Students will know the basis of International Trade CO2 Students will understand the Export-Import Finance and Forex Management CO3 Students will become aware of the documentation involved in International Trade.
FINANCIAL DERIVATIVES - 12 PBA 4317	CO1 Students will gain the concepts of various derivative instruments used in the financial and commodity markets. CO2 The knowledge of managing investment risks by using suitable derivative instruments are understood by the students. CO3 Students will gain insights on the procedures and systems being followed in derivative markets in

	India.
RETAIL MANAGEMENT - 12PBA 4325	CO1 Students will gain understanding of retail industry in India and in world and various retail formats. CO2 Gain knowledge of retail operations CO3 Become skilled to design and manage a retail store.
SERVICES MARKETING - 12PBA 3322	CO1 Students will learn the evolving marketing strategies to meet the unique challenges and opportunities of the services sector. CO2 Students will become capable developing a new service process. CO3 Students will understand the Customer relationship management in service sector.
CHANGE MANAGEMENT - 12PBA 4335	CO1 Students will gain an overview of organizational change. CO2 Students will understand the role of Change management in OD. CO3 Students will gain insights on Managing change at the Global level.
INDUSTRIAL RELATIONS AND LABOUR LAWS - 12PBA4336	CO1 Students will understand the basic concepts of Industrial Relations. CO2 Students will realize the importance of Trade Union and Collective Bargaining. CO3 Students will know the recent amendments in different labor enactment.

Program name: MCA

Program Specific Outcomes

PSO 1: Adapt and utilize principles of mathematics and computing techniques to solve real world problems.

PSO 2: Apply modern tools and techniques to design and develop web and mobile applications.

PSO 3: Explore the knowledge acquired from Data Mining, Internet of Things and Cloud Computing and Big Data through research.

PSO 4: Analyze and apply the knowledge of Organizational Structure and Human resource management, Management Information Systems and ERP and Mobile Commerce and develop entrepreneurship skills.

Course name and Course code	Course Outcome
Mathematical Foundations of Computer Science 18PCA11	<p>CO1: Understand the notion of mathematical thinking, mathematical proofs, and algorithmic thinking, and be able to apply them in problem solving.</p> <p>CO2: Use effectively algebraic techniques to analyze basic discrete structures</p> <p>CO3: Understand some basic properties of graphs and related discrete structures, and be able to relate these to practical examples.</p> <p>CO4: Use finite-state machines to model computer operations</p>
Programming in C 18PCA12	<p>CO1:Basics of C language programming.</p> <p>CO2:Methods of implementing decision making, branching and looping.</p> <p>CO3:Usage of arrays and functions in the coding.</p> <p>CO4:Ideas about pointers</p> <p>CO5:Various storage components like structures and unions.</p> <p>CO6:Concepts of files and its operations.</p>
Computer Organization and Architecture 18PCA13	<p>CO1: Describe the digital components, registers and micro operations</p> <p>CO2: Interpret the computer organization and design of accumulator logic</p> <p>CO3 :Examine the CPU, pipeline and vector processing</p> <p>CO4: Describe the input-output organization and direct memory access</p> <p>CO5: Illustrate the different types of memory</p>
Windows and Linux 18PCA14	<p>CO 1:Provide knowledge about Linux operating system and shell programming.</p> <p>CO 2:Give detailed exposure in Linux Security, Network services and System administration.</p>
Computer Fundamentals and Visual Basic	<p>CO 1: Get clear idea about the fundamentals of computer.</p> <p>CO 2: Good understanding of the basic concepts of Visual Basic.</p> <p>CO 3:Have a good understanding of the Visual Basic language structure and language syntax</p>

18PCAE11	<p>CO 4: Effectively develop applications with a graphical user interface using controls in Visual Basic.</p> <p>CO 5: Have the capability of connecting visual basic with databases.</p>
Computer Crime and Ethics 18PCAE11	<p>CO 1:Get knowledge about general technical writing skills.</p> <p>CO 2:Apply diverse viewpoints to ethical dilemmas in the information technology field and recommend appropriate actions.</p> <p>CO 3:Identify and analyze in online ethics and Privacy Protection.</p> <p>CO 4:Identify the social implications and social values.</p> <p>CO 5:Think about the rights and responsibilities of engineers.</p>
Microprocessor 18PCAE11	<p>CO 1: Analyse, specify, design, write and test assembly language programs of moderate complexity.</p> <p>CO 2: Describe the classifications of 8086 instructions and use of 8086 registers.</p> <p>CO 3: Understand the interfacing of peripheral devices.</p> <p>CO 4: Characterise the Intel’1 32-Bit and 64-Bit Microprocessors.</p> <p>CO 5: Describe the features of Multicore Processors and PowerPC Microprocessors.</p>
Object Oriented Programming with C++ 18PCA21	<p>CO 1: Object Oriented Programming Concepts in detail.</p> <p>CO 2: Benefits of implementing OOPs concepts in programming</p> <p>CO 3: Concepts of constructors and destructors</p> <p>CO 4: Concepts of Overloading methods.</p> <p>CO 5: Ideas about Inheritance.</p> <p>CO 6: Ideas about exception handling and implementation of files concept.</p>
Operating Systems 18PCA22	<p>CO 1: Describe the operating system operations, structures and processes.</p> <p>CO 2: Examine threads, CPU scheduling algorithms and deadlocks.</p> <p>CO 3: Demonstrate critical section problem, semaphores and monitors.</p> <p>CO 4: Analyze main memory and virtual memory.</p> <p>CO 5: Classify Disk scheduling, RAID structure, distributed systems and network-based operating systems</p>
Data Structures and Algorithms	<p>CO 1 : Basic knowledge about data structures.</p> <p>CO 2 : An exposure in the development of algorithms and analyze the efficiency and</p>

18PCA23	<p>limitations of algorithms.</p> <p>CO 3 : Knowledge about stacks and queues.</p> <p>CO 4 : Detailed concept about trees and graphs.</p> <p>CO 5 : Basic knowledge about dynamic programming.</p>
Database Systems 18PCA24	<p>CO 1: Understand the basic concepts of the database and data models.</p> <p>CO 2: Obtain the knowledge of query evaluation to monitor the performance of the DBMS.</p> <p>CO 3: Design a database using ER diagrams and normalize the Relations.</p> <p>CO 4: Describe about Indexing and Hashing Techniques.</p> <p>CO 5: Acquire the knowledge about Concurrency control and Recovery System.</p>
Numerical and Statistical Methods 18PCAE21	<p>CO 1: Solve large systems of simultaneous linear equations. Use the least-squares method to obtain a function for data analysis.</p> <p>CO 2: Find solutions of non-linear equations using bisection method, Newton's methods and secant method and implement using a computer.</p> <p>CO 3: Estimate the solutions of systems of first order ordinary differential equations or higher order ordinary differential equations using various numerical methods and implement using a computer.</p> <p>CO 4: Construct graphical displays of science/engineering data and interpret the role of such displays in data analysis.</p> <p>CO 5: Apply basic statistical inference techniques, including confidence intervals, hypothesis testing and analysis of variance, to science/engineering problems.</p> <p>CO 6: Employ appropriate regression models to determine statistical relationships.</p>
Human Machine Interaction 18PCAE21	<p>CO 1: Get a detailed knowledge about Human Computer Interaction</p> <p>CO 2: Learn design issue, rules and techniques.</p> <p>CO 3: Know about evaluation techniques and universal design.</p> <p>CO 4: Gain knowledge about HCI patterns and toolkits.</p> <p>CO 5: Get an exposure of user support and adaptive help systems.</p>
Distributed Operating System 18PCAE21	<p>CO 1: Describe the distributed computing models and ATM Technology.</p> <p>CO 2: List out the desirable features of a Good Message Passing System.</p> <p>CO 3: Demonstrate RPC in Heterogeneous Environments.</p> <p>CO 4: Analyze the resource management and security in Distributed Operating System.</p> <p>CO 5: Examine the Distributed File Systems.</p>

Data Communication and Computer Networks 18PCA31	<p>CO 1: Gain knowledge about Data and Computer communications.</p> <p>CO 2: Acquire detailed exposure in Network Concepts and Protocols.</p> <p>CO 3: Obtain knowledge about various Transmission Media.</p> <p>CO 4: Get an exposure of OSI and TCP/IP layered approach.</p> <p>CO 5: Know about internet, email and www.</p>
Programming in Java 18PCA32	<p>CO 1: Understand the History and Fundamentals of Java.</p> <p>CO 2: Acquire the knowledge about Inheritance, Package and Exception Handling.</p> <p>CO 3: Write program using Multithreading.</p> <p>CO 4: Design the Applet using various Events.</p> <p>CO 5: Work with AWT controls.</p> <p>CO 6: Connect Java with a database using JDBC.</p>
Optimization Techniques 18PCA33	<p>CO 1: Get proficiency with tools from optimization, probability, including fundamental applications of those tools in industry and the public sector in contexts involving uncertainty and scarce or expensive resources.</p> <p>CO 2: Get facility with mathematical and computational modeling of real decision-making problems, including the use of modeling tools and computational tools, as well as analytic skills to evaluate the problems.</p> <p>CO 3: Get ability to work in a team: specifically to solve larger problems, communicate technical knowledge, partition a problem into smaller tasks, and complete tasks on time.</p>
Computer Graphics and Multimedia 18PCA34	<p>CO 1: Computer graphics hardware components.</p> <p>CO 2: Various attributes of graphics primitives.</p> <p>CO 3: Basic algorithms of graphics primitives.</p> <p>CO 4: 2 Dimensional and 3 Dimensional transformations.</p> <p>CO 5: Projection and clipping algorithms.</p> <p>CO 6: Multimedia concepts and its widespread applications.</p>
Organizational Structure and Human Resource	<p>CO 1: Acquire knowledge on organizational structure</p> <p>CO 2: Understand Group dynamics</p> <p>CO 3: Examine Personal Management and Human Resource Development</p> <p>CO 4: Examine Organizational change and development.</p>

Management 18PCAE31	
Management Information Systems and ERP 18PCAE31	<p>CO 1: Examine the importance of Information systems used in Business Operations.</p> <p>CO 2: Describe the vital role of Information Technology and Management Information Systems.</p> <p>CO 3: Analyze the evolution, implementation and advantages of an ERP systems.</p> <p>CO 4: Demonstrate the implementation of ERP in Organizations, Consultants and Users.</p>
Programming in C# and ASP.NET 18PCA41	<p>CO 1: Develop C# console applications using classes and objects and interfaces.</p> <p>CO 2: Demonstrate the ASP.NET Server Controls and Web Forms Standard Controls.</p> <p>CO 3: Apply Navigation Controls and Master Pages in Web Applications.</p> <p>CO 4: Build ASP.NET Database and Dynamic Data Applications.</p> <p>CO 5: Create ASP.NET AJAX and MVC Applications.</p>
Cloud Computing and Big Data 18PCA42	<p>CO 1: Describe about cloud organization and applications.</p> <p>CO 2: Demonstrate Cloud Infrastructure and Cloud Accessing.</p> <p>CO 3: Examine Cloud Storage, Standards and Services.</p> <p>CO 4: Understand Cloud-Based Applications, local clouds and thin clients.</p> <p>CO 5: Describe Big Data Analytics and Approaches.</p>
Web Technologies 18PCA43	<p>CO 1: Know about the various web development technologies like HTML & CSS, XML and PHP.</p> <p>CO 2: Get basic knowledge in database programming with mysql.</p>
Object Oriented Software Engineering 18PCA44	<p>CO 1: Understand the essentials of software engineering and various models of software Engineering.</p> <p>CO 2: Model software projects into high level design using UML diagrams.</p> <p>CO 3: Understand and practice the design and development of Software Engineering.</p> <p>CO 4: Evaluate the system with various testing techniques and strategies.</p> <p>CO 5: Measure the product and process performance using various metrics.</p>
Accounting and Financial Management Object	<p>CO 1: Describe about Financial accounting</p> <p>CO 2: Describe the Cost accounting processes</p> <p>CO 3: Describe about Management accounting</p> <p>CO 4: Describe about Financial management</p>

18PCAE41	CO 5: Describe working capital management
E-Commerce 18PCAE41	<p>CO 1: Demonstrate an understanding of the foundations and importance of E-commerce.</p> <p>CO 2: Demonstrate an understanding of retailing in E-commerce.</p> <p>CO 3: Analyze the impact of E-commerce on business models and strategy.</p> <p>CO 4: Describe Internet trading relationships including Business to Consumer, Business-to-Business, Intra-organizational.</p> <p>CO 5: Describe the infrastructure for E-commerce.</p> <p>CO 6: Assess electronic payment systems.</p>
Android Application Development 18PCA51	<p>CO 1: Understand the concepts and learn the tools for developing applications on mobile platforms like Android.</p> <p>CO 2: Create Android Applications based on simple User Interfaces.</p> <p>CO 3: Develop android applications involving 2D and 3D graphics.</p> <p>CO 4: Understand the concept of SQL Lite and database applications in Android.</p> <p>CO 5: Generate Android Applications involving Location and Multi-Touch capabilities.</p>
Data Mining 18PCA52	<p>CO 1: Types of data and the basic functionalities of data mining.</p> <p>CO 2: Data preprocessing methods and introduction to Data warehouse</p> <p>CO 3: Frequent itemset mining methods and association rules, which leads to data analysis.</p> <p>CO 4: Various Classification techniques.</p> <p>CO 5: Formation of clusters and its categories.</p> <p>CO 6: Applications of data mining and research opening areas.</p>
J2EE and J2ME 18PCA53	<p>CO 1: Describe J2EE Multi-Tier Architecture and develop servlet programs.</p> <p>CO 2: Develop JSP applications and illustrate RMI concept.</p> <p>CO 3: Examine Enterprise bean and classify the types of beans.</p> <p>CO 4: Develop distributed web applications using session beans.</p> <p>CO 5: Describe the J2ME architecture and apply High Level Display classes.</p>
Software Testing 18PCA54	<p>CO 1: Realize the importance of testing in SDLC.</p> <p>CO 2: Analyze various functional and structural testing techniques.</p> <p>CO 3: Get familiar with testing activities and object oriented testing.</p> <p>CO 4: Know the metrics and models in software testing.</p>
Mobile Computing 18PCAE51	<p>CO 1: Acquire general concepts in Wireless Communication Fundamentals.</p> <p>CO 2: Describe the basic concepts and principles in mobile computing.</p> <p>CO 3: Understand the concept of Wireless LANs and Mobile Networks.</p>

	<p>CO 4: Explain the structure and components for Mobile IP and Mobile networks.</p> <p>CO 5: Acquire the knowledge to Mobile Transport Layer.</p>
<p>Digital Image Processing 18PCAE51</p>	<p>CO 1: Understand the image fundamentals and mathematical transforms necessary for image processing.</p> <p>CO 2: Get clear idea about the image enhancement techniques.</p> <p>CO 3: Describe the image restoration procedures.</p> <p>CO 4: Gain knowledge about the image compression techniques.</p> <p>CO 5: Understand the image segmentation and representation techniques.</p>
<p>Compiler Design 18PCAE51</p>	<p>CO 1: Know about different phases of a compiler.</p> <p>CO 2: Know about Parsing Techniques.</p> <p>CO 3: Describe about symbol tables, error detection and recovery.</p> <p>CO 4: Acquire knowledge about code optimization and code generation.</p> <p>CO 5: Design a compiler.</p>
<p>Self Study Papers Current Trends in Computers 18PCAS01</p>	<p>CO 1: Know about the Customer Relationship Management.</p> <p>CO 2: Examine new innovations in E-Banking.</p> <p>CO 3: Demonstrate new trends and technologies E-Learning and E-Logistics.</p> <p>CO 4: Know about new GIS/GPS technologies.</p> <p>CO 5: Understand biometric technologies and embedded systems.</p>
<p>Web User Interface Design 18PCAS02</p>	<p>CO 1: Understand the web user interface design.</p> <p>CO 2: Examine the types of navigations.</p> <p>CO 3: Understand the evaluation methods.</p> <p>CO 4: Describe the persuasive architecture and organizational schemes.</p>
<p>Cyber Security 18PCAS03</p>	<p>CO 1: Examine the types of information systems and security.</p> <p>CO 2: Describe about types of threats and attacks.</p> <p>CO 3: Demonstrate encryption and digital signatures.</p> <p>CO 4: Analyze firewalls and virtual private networks.</p> <p>CO 5: Understand Copyright Act and Intellectual Property Law.</p>
<p>Internet of Things 18PCAS04</p>	<p>CO 1: Describe the characteristics, physical and logical design of IoT.</p> <p>CO 2: Identify various domain specific IoTs.</p> <p>CO 3: Differentiate IoT and M2M.</p> <p>CO 4: Explore the IoT design methodology.</p>

	<p>CO 5:Develop applications using Raspberry Pi with Python.</p> <p>CO 6:Interpret various Amazon web services for IoT.</p> <p>CO 7:Illustrate the applications of IoT in various fields.</p> <p>CO 8:Apply the knowledge of IoT system for data analysis.</p> <p>CO 9:Describe the tools for IoT namely Chef and Puppet.</p> <p>CO 10: Explore the working of IoT Code Generator tool.</p>
M-Commerce 18PCAS05	<p>CO 1:Get knowledge of mobile commerce applications and technologies.</p> <p>CO 2:Understand requirements of diverse 2-commerce services.</p> <p>CO 3:Get skills to identify and design the infrastructure-support for mobile commerce services.</p> <p>CO 4:Obtain critical knowledge of wireless infrastructure for location-based services.</p> <p>CO 5:Get high-level knowledge of management challenges in mobile commerce services.</p> <p>CO 6:Understand multiple factors in adoption and usage of mobile commerce services.</p> <p>CO 7:Get an awareness of emerging trends and development in mobile commerce.</p>
Green Computing 18PCAS06	<p>CO 1: Adopt green computing practices to minimize negative impacts on the environment.</p> <p>CO 2: Enhance the skill in energy saving practices in their use of hardware.</p> <p>CO 3: Evaluate technology tools that can reduce paper waste and carbon footprint by the stakeholders.</p> <p>CO 4: Understand the ways to minimize equipment disposal requirements.</p> <p>CO 5: Analyze the case studies and utilize the Green IT Strategies.</p>
ECC Papers Aptitude and Reasoning Skills 18PCAE01	<p>CO 1:Get basic skills in analogy.</p> <p>CO 2:Solve problems on analytical reasoning and verbal reasoning.</p> <p>CO 3:Get exposure on problems with simplifications and average.</p> <p>CO 4:Solve problems on percentage, partnership and time and work.</p> <p>CO 5:Get exposure on problems with trains, boats and simple interest.</p>
Communication and Presentation Skills 18PCAE02	<p>On successful completion of the course, the learners will be able to know the</p> <p>CO 1:Basics of English grammar.</p> <p>CO 2:Methods to speak English fluently.</p> <p>CO 3:Presentation and communication theories.</p> <p>CO 4:Principles of effective communication.</p> <p>CO 5:Various styles in public speaking.</p>

Scripting Languages and AJAX 18PCAE03	On successful completion of the course, the learners will be able to know CO 1: Basics of VB Script and Java Script. CO 2: Methods of error handling. CO 3: Features of Java Script. CO 4: Usage of Ajax.
Free and Open Source Software Development 18PCAE04	CO 1: Be exposed to the context and operation of free and open source software (LAMP). CO 2: Be familiar with participating in a Linux and Apache. CO 3: Learn scripting language like Perl. CO 4: Learn programming language like PHP. CO 5: Learn some important database tools and techniques in MySQL.
IT Infrastructure Management 18PCAE05	CO 1: Describe about Computing Resources. CO 2: Examine service delivery and support process. CO 3: Understand storage management and data retention. CO 4: Get an exposure on security management and IT ethics.

Course name and Course code	Course Outcome
Mathematical Foundations of Computer Science 15PCA11	CO 1: Understand the notion of mathematical thinking, mathematical proofs, and algorithmic thinking, and be able to apply them in problem solving. CO 2: Use effectively algebraic techniques to analyze basic discrete structures CO 3: Understand some basic properties of graphs and related discrete structures, and be able to relate these to practical examples. CO 4: Use finite-state machines to model computer operations
Programming in C 15PCA12	CO1: Basics of C language programming. CO2: Methods of implementing decision making, branching and looping. CO3: Usage of arrays and functions in the coding. CO4: Ideas about pointers CO5: Various storage components like structures and unions.

	CO6: Concepts of files and its operations.
Computer Organization and Architecture 15PCA13	CO1: Describe the digital components, registers and micro operations CO2: Interpret the computer organization and design of accumulator logic CO3: Examine the CPU, pipeline and vector processing CO4: Describe the input-output organization and direct memory access CO5: Illustrate the different types of memory
Windows and Linux 15PCA14	CO 1: Provide knowledge about Linux operating system and shell programming. CO 2: Give detailed exposure in Linux Security, Network services and System administration.
Computer Fundamentals and Visual Basic 15PCAE11	CO 1: Get clear idea about the fundamentals of computer. CO 2: Good understanding of the basic concepts of Visual Basic. CO 3: Have a good understanding of the Visual Basic language structure and language syntax CO 4: Effectively develop applications with a graphical user interface using controls in Visual Basic. CO 5: Have the capability of connecting visual basic with databases.
Computer Crime and Ethics 15PCAE11	CO 1: Get knowledge about general technical writing skills. CO 2: Apply diverse viewpoints to ethical dilemmas in the information technology field and recommend appropriate actions. CO 3: Identify and analyze in online ethics and Privacy Protection. CO 4: Identify the social implication and social values. CO 5: Think about the rights and responsibilities of engineers.
Human Machine Interaction 15PCAE11	CO 1: Get a detailed knowledge about Human Computer Interaction CO 2: Learn design issue, rules and techniques. CO 3: Know about evaluation techniques and universal design. CO 4: Gain knowledge about HCI patterns and toolkits. CO 5: Get an exposure of user support and adaptive help systems.
Object Oriented	CO 1: Object Oriented Programming Concepts in detail.

Programming with C++ 15PCA21	<p>CO 2: Benefits of implementing OOPs concepts in programming</p> <p>CO 3: Concepts of constructors and destructors</p> <p>CO 4: Concepts of Overloading methods.</p> <p>CO 5: Ideas about Inheritance.</p> <p>CO 6: Ideas about exception handling and implementation of files concept.</p>
Operating Systems 15PCA22	<p>CO 1: Describe the operating system operations, structures and processes.</p> <p>CO 2: Examine threads, CPU scheduling algorithms and deadlocks.</p> <p>CO 3: Demonstrate critical section problem, semaphores and monitors.</p> <p>CO 4: Analyze main memory and virtual memory.</p> <p>CO 5: Classify Disk scheduling, RAID structure, distributed systems and network-based operating systems</p>
Data Structures and Algorithms 15PCA23	<p>CO 1: Basic knowledge about data structures.</p> <p>CO 2: An exposure in the development of algorithms and analyze the efficiency and limitations of algorithms.</p> <p>CO 3: Knowledge about stacks and queues.</p> <p>CO 4: Detailed concept about trees and graphs.</p> <p>CO 5: Basic knowledge about dynamic programming.</p>
Database Systems 15PCA24	<p>CO 1: Understand the basic concepts of the database and data models.</p> <p>CO 2: Obtain the knowledge of query evaluation to monitor the performance of the DBMS.</p> <p>CO 3: Design a database using ER diagrams and normalize the Relations.</p> <p>CO 4: Describe about Indexing and Hashing Techniques.</p> <p>CO 5: Acquire the knowledge about Concurrency control and Recovery System.</p>
Numerical and Statistical Methods 15PCAE21	<p>CO 1: Solve large systems of simultaneous linear equations. Use the least-squares method to obtain a function for data analysis.</p> <p>CO 2: Find solutions of non-linear equations using bisection method, Newton's methods and secant method and implement using a computer.</p> <p>CO 3: Estimate the solutions of systems of first order ordinary differential equations or higher order ordinary differential equations using various numerical methods and implement using a computer.</p> <p>CO 4: Construct graphical displays of science/engineering data and interpret the role of</p>

	<p>such displays in data analysis.</p> <p>CO 5: Apply basic statistical inference techniques, including confidence intervals, hypothesis testing and analysis of variance, to science/engineering problems.</p>
<p>Introduction to Microprocessor 15PCAE21</p>	<p>CO 1: Analyse, specify, design, write and test assembly language programs of moderate complexity.</p> <p>CO 2: Describe the classifications of 8086 instructions and use of 8086 registers.</p> <p>CO 3: Understand the interfacing of peripheral devices.</p> <p>CO 4: Characterise the Intel'1 32-Bit and 64-Bit Microprocessors.</p> <p>CO 5: Describe the features of Multicore Processors and PowerPC Microprocessors.</p>
<p>Distributed Operating System 15PCAE21</p>	<p>CO 1 : Describe the operating system operations, structures and processes.</p> <p>CO 2 : Examine threads, CPU scheduling algorithms and deadlocks.</p> <p>CO 3 : Demonstrate critical section problem, semaphores and monitors.</p> <p>CO 4 : Analyze main memory and virtual memory.</p> <p>CO 5: Classify Disk scheduling, RAID structure, distributed systems and network-based operating systems</p>
<p>Data Communication and Computer Networks 15PCA31</p>	<p>CO 1: Gain knowledge about Data and Computer communications.</p> <p>CO 2: Acquire detailed exposure in Network Concepts and Protocols.</p> <p>CO 3: Obtain knowledge about various Transmission Media.</p> <p>CO 4: Get an exposure of OSI and TCP/IP layered approach.</p> <p>CO 5: Know about internet, email and www.</p>
<p>Programming in Java 15PCA32</p>	<p>CO 1: Understand the History and Fundamentals of Java.</p> <p>CO 2: Acquire the knowledge about Inheritance, Package and Exception Handling.</p> <p>CO 3: Write program using Multithreading.</p> <p>CO 4: Design the Applet using various Events.</p> <p>CO 5: Work with AWT controls.</p> <p>CO 6: Connect Java with a database using JDBC.</p>
<p>Optimization Techniques</p>	<p>CO 1: Get proficiency with tools from optimization, probability, including fundamental applications of those tools in industry and the public sector in contexts involving</p>

15PCA33	<p>uncertainty and scarce or expensive resources.</p> <p>CO 2: Get facility with mathematical and computational modeling of real decision-making problems, including the use of modeling tools and computational tools, as well as analytic skills to evaluate the problems.</p> <p>CO 3: Get ability to work in a team: specifically to solve larger problems, communicate technical knowledge, partition a problem into smaller tasks and complete tasks on time.</p>
<p>Computer Graphics and Multimedia</p> <p>15PCA34</p>	<p>CO 1: Computer graphics hardware components.</p> <p>CO 2: Various attributes of graphics primitives.</p> <p>CO 3: Basic algorithms of graphics primitives.</p> <p>CO 4: 2 Dimensional and 3 Dimensional transformations.</p> <p>CO 5: Projection and clipping algorithms.</p> <p>CO 6: Multimedia concepts and its widespread applications.</p>
<p>Organizational Structure and Human Resource Management</p> <p>15PCAE31</p>	<p>CO 1:Acquire knowledge on organizational structure</p> <p>CO 2: Understand Group dynamics</p> <p>CO 3: Examine Personal Management and Human Resource Development</p> <p>CO 4: Examine Organizational change and development.</p>
<p>Management Information System and ERP</p> <p>15PCAE31</p>	<p>CO 1: Examine the importance of Information systems used in Business Operations.</p> <p>CO 2: Describe the vital role of Information Technology and Management Information Systems.</p> <p>CO 3: Analyze the evolution, implementation and advantages of an ERP systems.</p> <p>CO 4: Demonstrate the implementation of ERP in Organizations, Consultants and Users.</p>
<p>J2EE</p> <p>15PCA41</p>	<p>CO 1: Describe J2EE Multi-Tier Architecture and develop servlet programs.</p> <p>CO 2: Develop JSP applications and illustrate RMI concept.</p> <p>CO 3: Examine Enterprise bean and classify the types of beans.</p> <p>CO 4: Develop distributed web applications using session beans.</p>
<p>Cloud Computing and Big Data</p>	<p>CO 1: Describe about cloud organization and applications.</p> <p>CO 2: Demonstrate Cloud Infrastructure and Cloud Accessing.</p> <p>CO 3: Examine Cloud Storage, Standards and Services.</p> <p>CO 4: Understand Cloud-Based Applications, local clouds and thin clients.</p>

15PCA42	CO 5: Describe Big Data Analytics and Approaches.
Web Technologies 15PCA43	CO 1: Know about the various web development technologies like HTML & CSS, XML and PHP. CO 2: Get basic knowledge in database programming with mysql.
Software Engineering 15PCA44	CO 1: Understand the essentials of software engineering and various models of software Engineering. CO 2: Model software projects into high level design using UML diagrams. CO 3: Understand and practice the design and development of Software Engineering. CO 4: Evaluate the system with various testing techniques and strategies. CO 5: Measure the product and process performance using various metrics.
Accounting and Financial Management 15PCAE41	CO 1: Describe about Financial accounting CO 2: Describe the Cost accounting processes CO 3: Describe about Management accounting CO 4: Describe about Financial management CO 5: Describe working capital management
E-Commerce 15PCAE41	CO 1: Describe about cloud organization and applications. CO 2: Demonstrate Cloud Infrastructure and Cloud Accessing. CO 3: Examine Cloud Storage, Standards and Services. CO 4: Understand Cloud-Based Applications, local clouds and thin clients. CO 5: Describe Big Data Analytics and Approaches.
Android Application Development 15PCA51	CO 1: Understand the concepts and learn the tools for developing applications on mobile platforms like Android. CO 2: Create Android Applications based on simple User Interfaces. CO 3: Develop android applications involving 2D and 3D graphics. CO 4: Understand the concept of SQL Lite and database applications in Android. CO 5: Generate Android Applications involving Location and Multi-Touch capabilities.
Data Mining 15PCA52	CO 1: Types of data and the basic functionalities of data mining. CO 2: Data preprocessing methods and introduction to Data warehouse CO 3: Frequent itemset mining methods and association rules, which leads to data analysis. CO 4: Various Classification techniques.

	<p>CO 5: Formation of clusters and its categories.</p> <p>CO 6: Applications of data mining and research opening areas.</p>
<p>Programming in C# and ASP.NET 15PCA53</p>	<p>CO 1: Develop C# console applications using classes and objects and interfaces.</p> <p>CO 2: Demonstrate the ASP.NET Server Controls and Web Forms Standard Controls.</p> <p>CO 3: Apply Navigation Controls and Master Pages in Web Applications.</p> <p>CO 4: Build ASP.NET Database and Dynamic Data Applications.</p> <p>CO 5: Create ASP.NET AJAX and MVC Applications.</p>
<p>Software Testing 15PCA54</p>	<p>CO 1: Realize the importance of testing in SDLC.</p> <p>CO 2: Analyze various functional and structural testing techniques.</p> <p>CO 3: Get familiar with testing activities and object oriented testing.</p> <p>CO 4: Know the metrics and models in software testing.</p>
<p>Mobile Computing 15PCAE51</p>	<p>CO 1: Acquire general concepts in Wireless Communication Fundamentals.</p> <p>CO 2: Describe the basic concepts and principles in mobile computing.</p> <p>CO 3: Understand the concept of Wireless LANs and Mobile Networks.</p> <p>CO 4: Explain the structure and components for Mobile IP and Mobile networks.</p> <p>CO 5: Acquire the knowledge to Mobile Transport Layer.</p>
<p>Digital Image Processing 15PCAE51</p>	<p>CO 1: Understand the image fundamentals and mathematical transforms necessary for image processing.</p> <p>CO 2: Get clear idea about the image enhancement techniques.</p> <p>CO 3: Describe the image restoration procedures.</p> <p>CO 4: Gain knowledge about the image compression techniques.</p> <p>CO 5: Understand the image segmentation and representation techniques.</p>
<p>Compiler Design 15PCAE51</p>	<p>CO 1: Know about different phases of a compiler.</p> <p>CO 2: Know about Parsing Techniques.</p> <p>CO 3: Describe about symbol tables, error detection and recovery.</p> <p>CO 4: Acquire knowledge about code optimization and code generation.</p> <p>CO 5: Design a compiler.</p>
<p>Self Study Papers Current Trends in Computers</p>	<p>CO 1: Know about the Customer Relationship Management.</p> <p>CO 2: Examine new innovations in E-Banking.</p> <p>CO 3: Demonstrate new trends and technologies E-Learning and E-Logistics.</p> <p>CO 4: Know about new GIS/GPS technologies.</p>

15PCAS11	CO 5: Understand biometric technologies and embedded systems.
Aptitude and Reasoning Skills 15PCAS12	CO 1: Get basic skills in analogy. CO 2: Solve problems on analytical reasoning and verbal reasoning. CO 3: Get exposure on problems with simplifications and average. CO 4: Solve problems on percentage, partnership and time and work. CO 5: Get exposure on problems with trains, boats and simple interest.
Visual C++ 15PCAS13	CO 1: Know about windows programming. CO 2: Know about VC++ introduction. CO 3: Describe about the document structure. CO 4: Acquire knowledge about OLE. CO 5: Advanced concepts.
Client Server Computing 15PCAS14	CO 1: Know about overview of client server computing. CO 2: Understand basics of client server computing. CO 3: Describe about the client requirements. CO 4: Examine server OS. CO 5: Inculcate knowledge about networking.
Cryptography 15PCAS15	CO 1: Gain knowledge on overview of security architecture. CO 2: Understand basics of public key cryptography. CO 3: Describe about the authentication. CO 4: Acquire knowledge about network security. CO 5: Explain about system level security.
VB Script and Java Script 15PCAS16	CO 1: Know about the Basics of VB Script and Java Script. CO 2: Demonstrate the methods of error handling. CO 3: Understand the features of Java Script. CO 4: Illustrate the usage of string objects.
Pervasive Computing 15PCAS17	CO 1: Acquire knowledge on the Basics of Pervasive computing. CO 2: Describe about the wireless protocols. CO 3: Understand about Voice technology CO 4: Know about the usage of pervasive web applications. CO 5: Demonstrate the usage of WAP access.

Course name and Course code	Course Outcome
Mathematical Foundations of Computer Science 12PCA11	<p>CO 1: Understand the notion of mathematical thinking, mathematical proofs, and algorithmic thinking, and be able to apply them in problem solving.</p> <p>CO 2: Use effectively algebraic techniques to analyze basic discrete structures</p> <p>CO 3: Understand some basic properties of graphs and related discrete structures, and be able to relate these to practical examples.</p> <p>CO 4: Use finite-state machines to model computer operations</p>
Programming in C 12PCA12	<p>CO 1: Basics of C language programming.</p> <p>CO 2: Methods of implementing decision making, branching and looping.</p> <p>CO 3: Usage of arrays and functions in the coding.</p> <p>CO 4: Ideas about pointers</p> <p>CO 5: Various storage components like structures and unions.</p> <p>CO 6: Concepts of files and its operations.</p>
Computer Organization and Architecture 12PCA13	<p>CO 1: Describe the digital components, registers and micro operations</p> <p>CO 2: Interpret the computer organization and design of accumulator logic</p> <p>CO 3: Examine the CPU, pipeline and vector processing</p> <p>CO 4: Describe the input-output organization and direct memory access</p> <p>CO 5: Illustrate the different types of memory</p>
Database Systems 12PCA14	<p>CO 1: Understand the basic concepts of the database and data models.</p> <p>CO 2: Obtain the knowledge of query evaluation to monitor the performance of the DBMS.</p> <p>CO 3: Design a database using ER diagrams and normalize the Relations.</p> <p>CO 4: Describe about Indexing and Hashing Techniques.</p> <p>CO 5: Acquire the knowledge about Concurrency control and Recovery System.</p>
Computer Fundamentals and Visual Basic 12PCAE11	<p>CO 1: Get clear idea about the fundamentals of computer.</p> <p>CO 2: Good understanding of the basic concepts of Visual Basic.</p> <p>CO 3: Have a good understanding of the Visual Basic language structure and language syntax</p> <p>CO 4: Effectively develop applications with a graphical user interface using controls in Visual Basic.</p> <p>CO 5: Have the capability of connecting visual basic with databases.</p>
E-Commerce	<p>CO 1: Describe about cloud organization and applications.</p>

12PCAE11	<p>CO 2: Demonstrate Cloud Infrastructure and Cloud Accessing.</p> <p>CO 3: Examine Cloud Storage, Standards and Services.</p> <p>CO 4: Understand Cloud-Based Applications, local clouds and thin clients.</p> <p>CO 5: Describe Big Data Analytics and Approaches.</p>
Management Information System and ERP 12PCAE11	<p>CO 1: Examine the importance of Information systems used in Business Operations.</p> <p>CO 2: Describe the vital role of Information Technology and Management Information Systems.</p> <p>CO 3: Analyze the evolution, implementation and advantages of an ERP systems.</p> <p>CO 4: Demonstrate the implementation of ERP in Organizations, Consultants and Users.</p>
Object Oriented Programming with C++ 12PCA21	<p>CO 1: Object Oriented Programming Concepts in detail.</p> <p>CO 2: Benefits of implementing OOPs concepts in programming</p> <p>CO 3: Concepts of constructors and destructors</p> <p>CO 4: Concepts of Overloading methods.</p> <p>CO 5: Ideas about Inheritance.</p> <p>CO 6: Ideas about exception handling and implementation of files concept.</p>
Operating Systems 12PCA22	<p>CO 1: Describe the operating system operations, structures and processes.</p> <p>CO 2: Examine threads, CPU scheduling algorithms and deadlocks.</p> <p>CO 3: Demonstrate critical section problem, semaphores and monitors.</p> <p>CO 4: Analyze main memory and virtual memory.</p> <p>CO 5: Classify Disk scheduling, RAID structure, distributed systems and network-based operating systems.</p>
Data Structures and Algorithms 12PCA23	<p>CO 1 : Basic knowledge about data structures.</p> <p>CO 2 : An exposure in the development of algorithms and analyze the efficiency and limitations of algorithms.</p> <p>CO 3 : Knowledge about stacks and queues.</p> <p>CO 4 : Detailed concept about trees and graphs.</p> <p>CO 5 : Basic knowledge about dynamic programming.</p>
UNIX and Linux 12PCA24	<p>CO 1: Provide knowledge about Linux operating system and shell programming.</p> <p>CO 2: Give detailed exposure in Linux Security, Network services and System administration.</p>
Microprocessor	<p>CO 1: Analyse, specify, design, write and test assembly language programs of moderate complexity.</p>

12PCAE21	<p>CO 2: Describe the classifications of 8086 instructions and use of 8086 registers.</p> <p>CO 3: Understand the interfacing of peripheral devices.</p> <p>CO 4: Characterise the Intel' 1 32-Bit and 64-Bit Microprocessors.</p> <p>CO 5: Describe the features of Multicore Processors and PowerPC Microprocessors.</p>
<p>Numerical and Statistical Methods 12PCAE21</p>	<p>CO 1: Solve large systems of simultaneous linear equations. Use the least-squares method to obtain a function for data analysis.</p> <p>CO 2: Find solutions of non-linear equations using bisection method, Newton's methods and secant method and implement using a computer.</p> <p>CO 3: Estimate the solutions of systems of first order ordinary differential equations or higher order ordinary differential equations using various numerical methods and implement using a computer.</p> <p>CO 4: Construct graphical displays of science/engineering data and interpret the role of such displays in data analysis.</p> <p>CO 5: Apply basic statistical inference techniques, including confidence intervals, hypothesis testing and analysis of variance, to science/engineering problems.</p> <p>CO 6: Employ appropriate regression models to determine statistical relationships</p>
<p>Object Oriented Analysis and Design 12PCAE21</p>	<p>CO 1: Gain knowledge about OOAD basics.</p> <p>CO 2: Obtain knowledge about Dynamic modeling.</p> <p>CO 3: Obtain knowledge about system design</p> <p>CO 4: comparison of methodology.</p> <p>CO 5: Know about UML diagrams.</p>
<p>Data Communication</p>	<p>CO 1: Gain knowledge about Data and Computer communications.</p> <p>CO 2: Acquire detailed exposure in Network Concepts and Protocols.</p>

and Computer Networks 12PCA31	<p>CO 3: Obtain knowledge about various Transmission Media.</p> <p>CO 4: Get an exposure of OSI and TCP/IP layered approach.</p> <p>CO 5: Know about internet, email and www.</p>
Programming in Java 12PCA32	<p>CO 1: Understand the History and Fundamentals of Java.</p> <p>CO 2: Acquire the knowledge about Inheritance, Package and Exception Handling.</p> <p>CO 3: Write program using Multithreading.</p> <p>CO 4: Design the Applet using various Events.</p> <p>CO 5: Work with AWT controls.</p> <p>CO 6: Connect Java with a database using JDBC.</p>
Optimization Techniques 12PCA33	<p>CO 1: Get proficiency with tools from optimization, probability, including fundamental applications of those tools in industry and the public sector in contexts involving uncertainty and scarce or expensive resources.</p> <p>CO 2: Get facility with mathematical and computational modeling of real decision-making problems, including the use of modeling tools and computational tools, as well as analytic skills to evaluate the problems.</p> <p>CO 3: Get ability to work in a team: specifically to solve larger problems, communicate technical knowledge, partition a problem into smaller tasks, and complete tasks on time.</p>
Computer Graphics and Multimedia 12PCA34	<p>CO 1: Computer graphics hardware components.</p> <p>CO 2: Various attributes of graphics primitives.</p> <p>CO 3: Basic algorithms of graphics primitives.</p> <p>CO 4: 2 Dimensional and 3 Dimensional transformations.</p> <p>CO 5: Projection and clipping algorithms.</p> <p>CO 6: Multimedia concepts and its widespread applications.</p>
Neural Networks 12PCA31	<p>CO 1: Introduction to Neural networks</p> <p>CO 2: Describe the Pattern recognition</p> <p>CO 3: Describe the supervised learning</p> <p>CO 4: Describe the multilayered networks</p> <p>CO 5: Describe the Fuzzy sets.</p>
Organizational	<p>CO 1:Acquire knowledge on organizational structure</p>

Structure and Human Resource Management 12PCAE31	<p>CO 2: Understand Group dynamics</p> <p>CO 3: Examine Personal Management and Human Resource Development</p> <p>CO 4: Examine Organizational change and development.</p>
Distributed Operating Systems 12PCAE31	<p>CO 1 : Describe the operating system operations, structures and processes.</p> <p>CO 2 : Examine threads, CPU scheduling algorithms and deadlocks.</p> <p>CO 3 : Demonstrate critical section problem, semaphores and monitors.</p> <p>CO 4 : Analyze main memory and virtual memory.</p> <p>CO 5: Classify Disk scheduling, RAID structure, distributed systems and network-based operating systems</p>
C# and DOT NET Framework 12PCA41	<p>CO 1: Understand DOT NET components and framework.</p> <p>CO 2: Develop C# console applications using classes and objects and interfaces.</p> <p>CO 3: Examine Operator Overloading, Exception Handling and Collections.</p> <p>CO 4: Build Windows Applications using Form Controls.</p> <p>CO 5: Build Database Programs using DLINQ.</p>
Accounting and Financial Management 12PCA42	<p>CO 1: Describe about Financial accounting</p> <p>CO 2: Describe the Cost accounting processes</p> <p>CO 3: Describe about Management accounting</p> <p>CO 4: Describe about Financial management</p> <p>CO 5: Describe working capital management</p>
Web Technologies 12PCA43	<p>CO 1: Know about the various web development technologies like HTML & CSS, XML and PHP.</p> <p>CO 2: Get basic knowledge in database programming with mysql.</p>
Software Engineering 12PCA44	<p>CO 1: Understand the essentials of software engineering and various models of software Engineering.</p> <p>CO 2: Model software projects into high level design using UML diagrams.</p> <p>CO 3: Understand and practice the design and development of Software Engineering.</p> <p>CO 4: Evaluate the system with various testing techniques and strategies.</p> <p>CO 5: Measure the product and process performance using various metrics.</p>

Grid Computing 12PCAE41	<p>CO 1: Know about Grid computing basics.</p> <p>CO 2: Know about Grid computing anatomy.</p> <p>CO 3: Describe OGSA, NFS.</p> <p>CO 4: Acquire knowledge about CMM.</p> <p>CO 5: Acquire knowledge about GT3.</p>
Cryptography and Network Security 12PCAE41	<p>CO 1: Know about the overview of security architecture.</p> <p>CO 2: Understand basics of public key cryptography.</p> <p>CO 3: Describe about the authentication.</p> <p>CO 4: Acquire knowledge about network security.</p> <p>CO 5: Examine system level security.</p>
Cloud Computing 12PCAE41	<p>CO 1: Describe about cloud organization and applications.</p> <p>CO 2: Demonstrate Cloud Infrastructure and Cloud Accessing.</p> <p>CO 3: Examine Cloud Storage, Standards and Services.</p> <p>CO 4: Understand Cloud-Based Applications, local clouds and thin clients.</p>
Compiler Design 12PCAE41	<p>CO 1: Know about different phases of a compiler.</p> <p>CO 2: Know about Parsing Techniques.</p> <p>CO 3: Describe about symbol tables, error detection and recovery.</p> <p>CO 4: Acquire knowledge about code optimization and code generation.</p> <p>CO 5: Design a compiler.</p>
WML and J2ME 12PCA51	<p>CO 1: Describe WML Structure and WML Script</p> <p>CO 2: Understand J2ME Architecture and Development Environment.</p> <p>CO 3: Examine J2ME Commands, Items and Events.</p> <p>CO 4: Develop applications using High Level and Low Level Display.</p> <p>CO 5: Describe the J2ME connection framework and Web services.</p>
Data Mining and Data Warehousing 12PCA52	<p>CO 1: Types of data and the basic functionalities of data mining.</p> <p>CO 2: Data preprocessing methods and introduction to Data warehouse.</p> <p>CO 3: Frequent itemset mining methods and association rules, which leads to data analysis.</p> <p>CO 4: Various Classification techniques.</p> <p>CO 5: Formation of clusters and its categories.</p>
J2EE	<p>CO 1: Describe J2EE Multi-Tier Architecture and develop servlet programs.</p> <p>CO 2: Develop JSP applications and illustrate RMI concept.</p>

12PCA53	<p>CO 3: Examine Enterprise bean and classify the types of beans.</p> <p>CO 4: Develop distributed web applications using session beans.</p>
Mobile Computing 12PCA54	<p>CO 1: Acquire general concepts in Wireless Communication Fundamentals.</p> <p>CO 2: Describe the basic concepts and principles in mobile computing.</p> <p>CO 3: Understand the concept of Wireless LANs and Mobile Networks.</p> <p>CO 4: Explain the structure and components for Mobile IP and Mobile networks.</p> <p>CO 5: Acquire the knowledge to Mobile Transport Layer.</p>
Software Testing 12PCAE51	<p>CO 1: Realize the importance of testing in SDLC.</p> <p>CO 2: Analyze various functional and structural testing techniques.</p> <p>CO 3: Get familiar with testing activities and object oriented testing.</p> <p>CO 4: Know the metrics and models in software testing.</p>
Robotics 12PCAE51	<p>CO 1: Understand the basics of Robotics.</p> <p>CO 2: Get clear idea about components of Robotics.</p> <p>CO 3: Describe the motion analysis.</p> <p>CO 4: Gain knowledge about the Robot actuators.</p> <p>CO 5: Understand the Robot applications.</p>
Digital Image Processing 12PCAE51	<p>CO 1: Understand the image fundamentals and mathematical transforms necessary for image processing.</p> <p>CO 2: Get clear idea about the image enhancement techniques.</p> <p>CO 3: Describe the image restoration procedures.</p> <p>CO 4: Gain knowledge about the image compression techniques.</p> <p>CO 5: Understand the image segmentation and representation techniques.</p>
Computer Crime and Ethics 12PCAE51	<p>CO 1: Get knowledge about general technical writing skills.</p> <p>CO 2: Apply diverse viewpoints to ethical dilemmas in the information technology field and recommend appropriate actions.</p> <p>CO 3: Identify and analyze in online ethics and Privacy Protection.</p> <p>CO 4: Identify the social implication and social values.</p> <p>CO 5: Think about the rights and responsibilities of engineers.</p>

P.G Department of Social Work

Course	Course Outcome
Introduction to Social Work (12PSW11)	CO1 Students will be able to identify various methods of Social Work being practiced in organisational settings CO2 They will be able to practice different tools and techniques that are part of various methods of Social Work
Man and Society (12PSW12)	CO1 Students will be able to apply various methods of social work practices based on the understanding gained about man and society CO2 They are expected to gain confidence in relating with other human beings and adapting to different social environment
Dynamics of Human Behaviour (12PSW13)	CO1 Students will be developing the ability to understand one's own growth and development patterns CO2 They will be able to understand human behaviour and reasons why individuals behave differently CO3 They are expected to gain confidence in helping individuals, group and community in bringing physical and mental harmony CO4 They will be able to adapt oneself in different conditions and while working with different people
Introduction to Social Case Work and Group Work (12PSW14)	CO1 Students imbibe values and attitudes and develop necessary skills to work with individuals Equip themselves with casework skills and techniques CO2 Students develop skills and techniques, and able to apply them for the development of group members through therapeutic works CO3

	They develop competencies to use various group work programmes and goal setting while working with groups
Social Work Administration and Legislation (12PSW21)	CO1 Students will be able to acquire skills required for managerial functions, administrative process, and programme delivery CO2 They will be developing management competencies suitable across different organisational settings CO3 They will be understanding the role of social worker especially in the field of advocacy and lobbying CO4 They will be able to bring sensitisation among the public and work as a change agent ensuring social justice
Social Work Research and Statistics (12PSW22)	CO1 Students will be able to develop the scientific enquiry skill needed for conducting research CO2 They are expected to develop the ability to undertake any Social Work research and conduct methodically CO3 They will be able to analyse critically into any social problem, find out causes of such problem and evolve suggestions to solve the problem
Community Organisation and Social Action (12PSW23)	CO1 Students will be able to acquire different assessment strategies in the community settings CO2 They will be able to understand community on the basis of their socio-economic, cultural and environmental background typical of their nation CO3 They are expected to acquire different social action techniques in Indian context CO4 They will be able to demonstrate social action methods on different social issues
Advance Social Case	CO1

<p>Work and Group Work (12PSW24)</p>	<p>Students will be able to work in different case work settings to help individuals through multiple interviewing, psychotherapy and psychiatric consultations CO2 Students will be able to understand individuals on the basis of their socio-economic, cultural and environmental background typical of their nation CO3 They will be able to develop adequate skills for interventions necessary for alleviating critical social problems and enhancing group well-being CO4 They are expected to develop personal competencies in areas of leading, facilitating enhancing, guiding and delegating and thereby becoming as a best therapeutic person in the field social group work</p>
<p>Computer Application for Social Work (12PSW32)</p>	<p>CO1 Students will be able accomplish basic assignments using computer packages like Word, Excel, Powerpoint, CO2 They are expected to communicate to outer world and develop interpersonal relationship with others by using e-mail, internet and media</p>
<p>Rural Economy and Cooperation (12PSW33)</p>	<p>CO1 Students will be able to develop the communicative ability to interact with officials of concerned departments both central and state CO2 They are expected to develop the ability to organise programmes and addressing agricultural issues</p>
<p>Rural Community Development (12PSW34)</p>	<p>CO1 Students will be able to identify and utilise the available resources CO2 They will have the ability to actualize, lobby and advocate for rural development</p>
<p>Development of Marginalized Community (12PSW35)</p>	<p>CO1 Students will be getting sensitised with regard to the status and issues of the marginalised community CO2 They will be able to respond to the felt needs of the individuals, children, women, differently</p>

	<p>abled and other vulnerable sections of the society</p> <p>CO3</p> <p>They are expected to organise the marginalised sections in ensuring their needs and demands met through government programmes and welfare measures and helping them protected by legal measures</p>
<p>Human Resource Management (12PSW36)</p>	<p>CO1</p> <p>Students will be Developing the ability to play a supportive role in realising the mutual interest of the employees and the organisation</p> <p>CO2</p> <p>They will be able to initiate different methods towards the talent management of employees</p> <p>CO3</p> <p>They will be developing the ability to fulfil the roles and responsibilities of a HR manager and ensure the welfare measures of employees are met</p> <p>Attempting to explore solutions to employee grievances and disputes</p>
<p>Industrial Relations and Trade Unions (12PSW37)</p>	<p>CO1</p> <p>Students will be able to understand the intervention strategies and the role of government</p> <p>CO2</p> <p>They are expected to understand the process of grievance settlement and management of indiscipline and getting trained as a liaison personal to bring industrial peace and harmony</p>
<p>Labour Legislations and Case Laws (12PSW38)</p>	<p>CO1</p> <p>Students are expected to enrich their knowledge in the field of labour laws and should become familiar with legal provisions to help employees in industries</p> <p>CO2</p> <p>They are expected to update their knowledge and develop in-depth understanding of relevant labour legislations with special reference to Tamil Nadu</p> <p>CO3</p> <p>They will be able to develop their ability to integrate the knowledge of labour law and design best HR practices in the field</p>
<p>Communication Skills for Social Work (12PSW43)</p>	<p>CO1</p> <p>Students will be able to understand self and others as well</p> <p>CO2</p> <p>They are expected to solve issues that might happen in the interpersonal relationship</p> <p>CO3</p>

	<p>They will be able to establish rapport with others by using different media and communication techniques</p> <p>CO4</p> <p>They will be able to identify and remove the barriers that are likely to happen during communication and be effective communicators</p>
<p>Urban Community Development (12PSW44)</p>	<p>CO1</p> <p>Students will be able to evaluate various developmental initiatives taken by Government, NGO and other bodies</p> <p>CO2</p> <p>They will be able to develop necessary skills to work with urban population</p>
<p>Management of Civil Society Organisation (12PSW45)</p>	<p>CO1</p> <p>Students are expected to develop the ability to initiate the process of establishing a CSO</p> <p>CO2</p> <p>They will be able to conduct baseline survey, need assessment and stakeholder analysis</p> <p>CO3</p> <p>They will be attempting to formulate and manage development projects</p> <p>CO4</p> <p>They are expected to develop the ability to address the felt needs of the community by organising human resource and mobilizing funds and other resources</p>
<p>Labour Welfare (12PSW46)</p>	<p>CO1</p> <p>Students are expected to acquire the knowledge of recent trends in labour welfare</p> <p>CO2</p> <p>They will be able to critically analyse and compare the welfare measures provided in IT and Non-IT sectors</p>
<p>Organisational Behaviour (12PSW47)</p>	<p>CO1</p> <p>Students will develop the ability to understand dimensions and dynamics of individual and group behaviour in organisation</p> <p>CO2</p> <p>They will be able to understand various factors and issues affecting human behaviour in organisation</p> <p>CO3</p> <p>They are expected to develop the ability to explore solutions to mitigate dysfunctional behaviour and promote functional behaviour of individuals and groups</p>

B.Sc Physics- Programme specific outcomes for 2018-2019

Completion of the B.Sc programme in Physics the Students will be able to

PSO 1. Understand and experiment the basic concepts of Properties of Matter and Acoustics, Solar Energy, Space Science and Cosmology, Nuclear Energy, Heat and Thermodynamics, Electricity and Magnetism, Optics and Lasers, Mechanics, Non-conventional Energy Sources, Digital Principles, Electronics, Nuclear Physics, Fiber Optics, Quantum Mechanics and Relativity, Geophysics, Solid State Physics, Instrumentation, Reactor Physics, Nano Physics and Spectroscopy.

PSO 2. Develop the skills on scientific programming through Programming with C and C++ and Microprocessor 8085 which will make them choose their career in wide spectrum of areas

PSO 3 realise their dream on designing electronic appliances by themselves

PSO 4. Harness the scientific ideas to reduce pollution by prompting non conventional or renewable energy resources

PSO 5. Gain confidence and move to higher studies

COURSE CODE	Course name	Course Outcome
12UPH11	Core-Properties of Matter and Accoustics	1. Understand the properties of matter such as elasticity, surface tension, viscosity etc. 2. Understand the fundamentals and applications of sound and ultrasonic 3. Understand the differences between surface tension and viscosity.

12UPH12	Practicals- Properties of Matter &Acoustics	Apply knowledge of linear motion, forces, energy, and circular motion to explain natural physical processes and related technological advances.
12 UNM 11	Domestic wiring, refrigeration and air conditioning	Exposure to a variety of important home appliances discussed in the lecture classes
12 UPH	Allied physics I	<ol style="list-style-type: none"> 1. Understand the fundamental concepts 2. Understand the principles and development in properties of matter and Heat Thermodynamics 3. Understand Specific heat capacity of various liquid 4. Understand the differences between surface tension and viscosity 5. Understand the various sources and resources of energy
	Allied physics I- practicals	Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the lecture classes

12 UPH		
12 UPH 21	Heat and thermodynamics	<ol style="list-style-type: none"> 1. Understand the basic concepts and methods used to study the behaviour of gases, transmission of heat and liquefaction of gases 2. Know the statistical behaviour of an ideal gas an electron gas and a photon gas have been discussed. 3. Know the basic concepts and the methods to study the properties of radiations. 4. Correlate the parameters on transport phenomena and viscosity of gases. 5. Understand the concepts in first and second law of thermodynamics.
12 UPH 22	Core-Practical-Heat and Thermodynamics	Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the lecture classes. Instrumentation and experimental techniques; methods for quantitative analysis of data and measurement uncertainty.
		1. to make learner to know about the large scale demand of heat energy foe meeting day to day domestic and

12UNM21	Nuclear energy and its application	<p>industrial requirements.</p> <p>2. strong need for nuclear energy</p> <p>3.to know about koodangulam nuclear reactor , uranium ore, and indo-american agreement of nuclear enewrgy</p>
12 USB 23	Space science and cosmology	TO enable the learner to have better understanding and insight of glimpses of the universe
12 UPH	Allied physics II	<ol style="list-style-type: none"> 1. Understand the fundamental concepts 2. Understand the principles and development in properties of matter and Heat Thermodynamics 3. Understand Specific heat capacity of various liquid 4. Understand the differences between surface tension and viscosity 5. Understand the various sources and resources of energy
	Allied physics II- practicals	<ol style="list-style-type: none"> 1. Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the

12 UPH		lecture classes
12 UPH 31	Core-Electricity & Magnetism	<ol style="list-style-type: none"> 1. Understand the physical aspects on electricity and magnetism and to apply the principles in day today life. 2. Gain knowledge on basic concepts and elements in ac circuits and its applications 3.determine the various thermo emf parameters.
12 UPH 32	Core-Practical-Electricity & Magnetism	Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the lecture classes. Instrumentation and experimental techniques; methods for quantitative analysis of data and measurement uncertainty.
12 USB 35	Application of materials	Its important and necessary that the student can understand the basics of materials interms of their structure , optical, electrical and mechanical properties
		<ol style="list-style-type: none"> 1. Gain good knowledge of optics and understand the developments in photonics . 2. Understand the various optical

12 UPH 41	Optics and Lasers	instruments 3. Understand the differences between interference diffraction and polarization 4. Understand the basic concepts in lasers 5. understand the camera and size and resolution power
12 UPH 42	Practical-Optics and Lasers	Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the lecture classes.
12 UPHE 41	Mechanics	1. Understand the various conservation laws in mechanics. 2. Understand the basic concepts in moment of inertia 3. Learn the various theories on hydrostatics and hydrodynamics 4. Solve problems in hydrodynamics and hydrostatics learn the classical mechanics in detail
	Physics for competitive exams	1. For the purpose of competing in the entrance examinations 2. an attempt has been made and tried

12 USB 41		to present the subject from very elementary level to the required standard level in a simple language 3. to make the students to feel easy to revise the subjects quickly at the time of exam
12 UPH 51	Programming with C++	1. Know the programming principles of C and C++ 2. Know the operators, expressions, and language constructs in C and C++ 3. Understand the OOP concepts 4.write programs to perform matrix addition, simple interest and compound interest
12 UPH 52	Practical-Programming with C & C++	Laboratory skills and Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the lecture classes.
12 UPH 52	Core-Microprocessor 8085	1. Understand the microprocessor hardware and software 2,write programs using Assembly language and describe the purpose of microprocessor internal registers 3.demonstrate a thorough

		<p>understanding of programming, implementing programs that search and sort arrays and object-oriented programming concepts.</p> <p>4. Know the terms applicable to microprocessor, program using Assembly Level Language.</p> <p>5. Understand the different types of interrupts</p>
12 UPH 53	PRACTICAL Microprocessor 8085	Laboratory skills and Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the lecture classes
12UPH 53	Electronics-I	<p>1. Understand the working of electronic devices.</p> <p>2.apply these techniques in practical circuits</p> <p>3.develop the skill in handling instruments</p> <p>4. Understand the various characteristics pertaining to diodes and its applications</p> <p>5. Understand the various biasing techniques.</p>

12 UPH 54	PRACTICALS- Electronics-I	<ol style="list-style-type: none"> 1. Learn the different electric parameters and units used 2. Understand the feedbacks in amplifiers 3. Understand the functions of operational amplifiers 4. Learn the construction and working of oscillators.
12 UPH 54	Nuclear Physics	<ol style="list-style-type: none"> 1. Understand the properties of nucleus, nuclear forces and the model. 2. Gain the knowledge of nuclear reactions, accelerators and elementary particles. 3. Understand the various models of the nuclei. 4. Understand the differences between nuclear fission and fusion 5. Understand the various nuclear reactions
	Core-Fiber Optics	<ol style="list-style-type: none"> 1. Understand the overview of communications signals transmitted over optical fibers and optical fiber communication devices. 2. Understand the importance of fiber optic material like GA As laser, LED, modulation formats and modulation

12 UPH 55		and demodulation.
12 UPH E51	Elective- Quantum Mechanics & Relativity	<ol style="list-style-type: none"> 1. Understand the postulates of quantum mechanics and capable of solving one dimensional transmission and reflection problems. 2. Understand Debroglie wavelength and the matter waves. 3.solve schrodinger time dependent and time independent equations solve the various problems pertaining to hydrogen atom
08 UPH 61	Electronics-II	<ol style="list-style-type: none"> 1. Learn the different electric parameters and units used 2. Understand the feedbacks in amplifiers 3. Understand the functions of operational amplifiers 4. Learn the construction and working of oscillators
12 UPH 62	Practicals- Electronics-II	Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the lecture classes.

M.Sc

12 UPH 62	Core-Digital Principles	<ol style="list-style-type: none">1. Understand the basic tool for the design of digital circuits and the hardware side of computers.2. Understand the basic concepts in arithmetic circuits3. Understand the difference between half subtractor and full subtractor4. Understand the various functions of flip flops and registers5. Understand the functions of registers and counters.
12 UPH 63	Practical-Digital Principles	Laboratory skills and Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the lecture classes.
12 UPH 63	Core-Solid State Physics	<ol style="list-style-type: none">1. Understand the structure of solids2. Understand the electronic and thermal properties of solid state systems and their technological applications.3. Understand the working and uses of semiconductors4. Understand the uses of dielectric5. Understand the properties of superconductors

Physics-

Programme specific outcomes: PG 2012-2013

Completion of the M.Sc programme in Physics the Students will be able to

PSO 1. Face the challenges of constantly evolving science world honing their ability

PSO 2. Apply and formulate the solution of emerging scientific problems

PSO 3. Pursue higher studies in physics

PSO 4. Handle any scientific equipment by providing hands-on experience with practical instrument

PSO 5. Face competitive exams are like NET/SLET as the course papers design based on NET syllabus

PSO 6. have the finer dimension of physics by providing foundations for transparencies of scientific knowledge at specialization level

PSO 7. Be inspired and oriented for research activities

PSO 8. Develop their employability skills by equipping students with multi practical dimension

12PPH11	Core	Mathematical Physics	<ul style="list-style-type: none">• To know about the algebra and transformation of groups.• To study about the local symmetries and constrained Hamiltonian transformations.• To gather knowledge about theories of hidden symmetries.• To understand the meaning of quantization and path integrals.
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12PPH12	Core	Quantum Mechanics - I	<ul style="list-style-type: none"> ❖ To understand the inadequacy of classical mechanics and Schrodinger equation ❖ Able to understand different postulates in wave mechanics ❖ Understand the angular momentum parameters in quantum mechanics ❖ To acquire skills of solving eigen value problem ❖ Able to understand matrix formulation and transformation theory
12PPH13	Core	Electronics	<ol style="list-style-type: none"> 1. Learn the different electric parameters and units used 2. Understand the feedbacks in amplifiers 3. Understand the functions of operational amplifiers 4. Learn the construction and working of oscillators.
12PPH14	Core	Practicals - I	<ol style="list-style-type: none"> 1. Understand the working of electronic devices. 2. apply these techniques in practical circuits 3. develop the skill in handling instruments 4. Understand the various characteristics pertaining to diodes and its applications 5. Understand the various biasing techniques.
12PPHE11	Elective	Classical Dynamics	<ul style="list-style-type: none"> • To gather knowledge about the fundamentals of Lagrangian formulation. • To acquire skills in Hamiltonian Formulation. • To know the solving ability of central force problems.

			<ul style="list-style-type: none"> • To understand about rigid body and its oscillatory motions. • To acquire the knowledge in the concepts in relativistic mechanics.
12PPHE11	Elective	Non Linear Dynamics	Nonlinear dynamics is the branch of physics that studies systems governed by equations more complex than the linear, $aX+b$ form. Nonlinear systems, such as the weather or neurons, often appear chaotic, unpredictable or counterintuitive, and yet their behaviour is not random
12PPH21	Core	Thermal Physics and Statistical Mechanics	<p>To study the fundamental laws and concepts of thermal physics</p> <p>To know in detail the quantum statistical mechanics</p>
12PPH22	Core	Quantum Mechanics - II	<ul style="list-style-type: none"> • Understand detail about different approximation methods • Study about scattering theory • Identify the different components of spin and symmetry • Understand about semi classical theory of radiation • Infer knowledge about relativistic quantum mechanics

12PPH23	Core	Electro Magnetic Theory	<input type="checkbox"/> To understand electrostatics <input type="checkbox"/> To acquire knowledge in magneto static <input type="checkbox"/> To study in detail about electro dynamics <input type="checkbox"/> To understand the concept of EM wave propagation <input type="checkbox"/> To know the effect of EM radiation
12PPH24	Core	Practicals - II	1. Understand the working of electronic devices. 2. apply these techniques in practical circuits 3. develop the skill in handling instruments
12PPHE21	Elective	Electronic Devices	To know the functional concepts of semiconductor devices To know the vrious configuration of FET To know the application of solar cell
12PPHE21	Elective	Numerical Methods in Physics	<input type="checkbox"/> Understand different numerical methods and their applications <input type="checkbox"/> Understand different computational techniques for physical application <input type="checkbox"/> Able to Study the various statistical methods for various applications <input type="checkbox"/> Identify the different interpolation techniques for computation <input type="checkbox"/> Able to solve simultaneous equations with different methods

12PPH31	Core	Condensed Matter Physics	<p>To know in detail, the crystal diffraction</p> <ul style="list-style-type: none"> <input type="checkbox"/> To understand the concept of energy band and to know various types of bonding <input type="checkbox"/> To study about semiconductor crystals <input type="checkbox"/> To study various theories of magnetism <input type="checkbox"/> To understand the concept of superconductivity
12PPH32	Core	Materials Science	<ul style="list-style-type: none"> <input type="checkbox"/> Students learn the basic ideas of crystal growth and nucleation <input type="checkbox"/> Able to understand different crystal growth methods <input type="checkbox"/> Understand the different deposition methods of thin film <input type="checkbox"/> Identify the different Characterization techniques of materials <input type="checkbox"/> Acquire more knowledge about different new materials
12PPH33	Core	Communication Physics	<ul style="list-style-type: none"> • Understand the application of analog and digital modulation and various communication systems • Understand the basics of modern cellular telephone systems • Acquire knowledge in radio wave propagation and satellite communication • Study various types of optical fiber couplers • Help to know about fiber optic transmitter

12PPHR31	Core	Practicals - III	<ol style="list-style-type: none"> 1. Understand the working of electronic devices. 2. apply these techniques in practical circuits 3. develop the skill in handling instruments 4. Understand the various characteristics pertaining to diodes and its applications 5. Understand the various biasing techniques.
12PPHE31	Elective	Microprocessor 8086	<p>To study in detail the architecture and introduce set of 8086, interrupts and assembly language programming</p> <p>To study various interfacing technique</p>
12PPHE31	Elective	Quantum Electro Dynamics	<p>To acquire knowledge in four vector notation relativistic equation</p> <p>To study various phenomenon of quantum electrodynamics</p>
12PPH41	Core	Nuclear Physics	<ol style="list-style-type: none"> 1. understand the properties of nucleus, nuclear forces and the model. 2. gain the knowledge of nuclear reactions, accelerators and elementary particles. 3. understand the various models of the nuclei. 4. understand the differences between nuclear fission and fusion 5. Understand the various nuclear reactions
12PPH42	Core	Spectroscopic	<p>□ To acquire more knowledge in microwave, infrared, Raman, electronic and Mossbauer and</p>

		Techniques	resonance spectroscopy
12PPH43	Core	Project	To engage in research activities
12PPHE41	Elective	Optoelectronics	<ol style="list-style-type: none"> 1. Understand the overview of communications signals transmitted over optical fibers and optical fiber communication devices. 2. Understand the importance of fiber optic material like GA As laser, LED, modulation formats and modulation and demodulation. 3. Understand and differentiate losses and couplers and its function 4. Understand the basic concepts in the process involving the parameters like modulation and demodulation. 5. Learn the various fiber optic materials.
12PPHE41	Elective	Nondestructive Testing	To acquire good knowledge in various types of non-distractive testing

COURSE CODE	Course name	Course Outcome
		1. Understand the properties of matter

15UPH11	Core-Properties of Matter and Acoustics	such as elasticity, surface tension, viscosity etc. 2. Understand the fundamentals and applications of sound and ultrasonics 3. Understand the differences between surface tension and viscosity.
15UPH12	Practicals- Properties of Matter & Acoustics	Apply knowledge of linear motion, forces, energy, and circular motion to explain natural physical processes and related technological advances.
15 UNM 11	Domestic wiring, refrigeration and air conditioning	Exposure to a variety of important home appliances discussed in the lecture classes
15 UMTA 11/15CHEA 31	Allied physics I	1. Understand the fundamental concepts 2. Understand the principles and development in properties of matter and Heat Thermodynamics 3. Understand Specific heat capacity of various liquid 4. Understand the differences between surface tension and viscosity 5. Understand the various sources and

		resources of energy
15 UMTA 12/15CHEA 32	Allied physics I-practicals	Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the lecture classes
15 UPH 21	Heat and thermodynamics	<ol style="list-style-type: none"> 1. Understand the basic concepts and methods used to study the behaviour of gases, transmission of heat and liquefaction of gases 2. Know the statistical behaviour of an ideal gas an electron gas and a photon gas have been discussed. 3. Know the basic concepts and the methods to study the properties of radiations. 4. Correlate the parameters on transport phenomena and viscosity of gases. 5. Understand the concepts in first and second law of thermodynamics.
15 UPH 22	Core-Practical-Heat and Thermodynamics	Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the lecture classes. Instrumentation and experimental techniques; methods for quantitative analysis of data and

		measurement uncertainty.
12 USB 23	Space science and cosmology	TO enable the learner to have better understanding and insight of glimpses of the universe
15 UMTA 21/15CHEA 41	Allied physics II	<ol style="list-style-type: none"> 1. Understand the fundamental concepts 2. Understand the principles and development in properties of matter and Heat Thermodynamics 3. Understand Specific heat capacity of various liquid 4. Understand the differences between surface tension and viscosity 5. Understand the various sources and resources of energy
15 UMTA 22/15CHEA 42	Allied physics II- practicals	<ol style="list-style-type: none"> 1. Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the lecture classes
	Core-Electricity & Magnetism	<ol style="list-style-type: none"> 1. Understand the physical aspects on electricity and magnetism and to apply the principles in day today life. 2. Gain knowledge on basic concepts and elements in ac circuits and its applications

15 UPH 31		3.determine the various thermo emf parameters.
15 UPH 32	Core-Practical-Electricity & Magnetism	Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the lecture classes. Instrumentation and experimental techniques; methods for quantitative analysis of data and measurement uncertainty.
15 USB 32	Everyday electronics	Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the lecture classes
15 UPH 32	Optics and Lasers	<ol style="list-style-type: none"> 1. Gain good knowledge of optics and understand the developments in photonics . 2. Understand the various optical instruments 3. Understand the differences between interference diffraction and polarization 4. Understand the basic concepts in lasers 5.understand the camera and size and resolution power
	Core-Practical-	Exposure to a variety of important

15 UPH 42	Optics and Lasers	experiments at appropriate levels that illustrate phenomena discussed in the lecture classes.
15 UPHE 41	Elective-Mechanics	<ol style="list-style-type: none"> 1. Understand the various conservation laws in mechanics. 2. Understand the basic concepts in moment of inertia 3. Learn the various theories on hydrostatics and hydrodynamics 4. solve problems in hydrodynamics and hydrostatics <p>learn the classical mechanics in detail</p>
15 USB 41	Physics for competitive exams	<p>For the purpose of competing in the entrance examinations</p> <ol style="list-style-type: none"> 2. an attempt has been made and tried to present the subject from very elementary level to the required standard level in a simple language 3. to make the students to feel easy to revise the subjects quickly at the time of exam
15UPH 51	Core-Digital Principles	<ol style="list-style-type: none"> 1. Understand the basic tool for the design of digital circuits and the hardware side of computers. 2. Understand the basic concepts in arithmetic circuits 3. Understand the difference between half subtractor and full subtractor

		<p>4. Understand the various functions of flip flops and registers</p> <p>5. Understand the functions of registers and counters.</p>
15 UPH 52	Electronics-I	<p>1. Understand the working of electronic devices.</p> <p>2. apply these techniques in practical circuits</p> <p>3. develop the skill in handling instruments</p> <p>4. Understand the various characteristics pertaining to diodes and its applications</p> <p>5. Understand the various biasing techniques.</p>
15 UPH 53	Core-Practical-Programming with C & C++	Laboratory skills and Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the lecture classes.
15 UPH 54	Nuclear Physics	<p>1. Understand the properties of nucleus, nuclear forces and the model.</p> <p>2. Gain the knowledge of nuclear reactions, accelerators and elementary particles.</p>

		<ol style="list-style-type: none"> 3. Understand the various models of the nuclei. 4. Understand the differences between nuclear fission and fusion 5. Understand the various nuclear reactions
15 UPH 55	Fiber Optics	<ol style="list-style-type: none"> 1. Understand the overview of communications signals transmitted over optical fibers and optical fiber communication devices. 2. Understand the importance of fiber optic material like GA As laser, LED, modulation formats and modulation and demodulation.
15 UPH 56	Practical-Digital Principles	Laboratory skills and Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the lecture classes.
15 UPH 57	PRACTICALS-Electronics-I	<ol style="list-style-type: none"> 1. Learn the different electric parameters and units used 2. Understand the feedbacks in amplifiers 3. Understand the functions of operational amplifiers 4. Learn the construction and working

		of oscillators.
15 UPH 58	Programming with C AND C++	Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the lecture classes.
15 UPH E51	Elective- Quantum Mechanics & Relativity	<ol style="list-style-type: none"> 1. Understand the postulates of quantum mechanics and capable of solving one dimensional transmission and reflection problems. 2. Understand DeBroglie wavelength and the matter waves. 3. solve schrodinger time dependent and time independent equations solve the various problems pertaining to hydrogen atom
Self study paper	Bio medical instrumentation physics	To understand important bio Instrumentation and experimental techniques; methods for quantitative analysis of data and measurement
15 UPH 61	Electronics-II	<ol style="list-style-type: none"> 1. Learn the different electric parameters and units used 2. Understand the feedbacks in amplifiers 3. Understand the functions of operational amplifiers 4. Learn the construction and working

		of oscillators
15 UPH 62	Core-Microprocessor 8085	<ol style="list-style-type: none"> 1. Understand the microprocessor hardware and software 2,write programs using Assembly language and describe the purpose of microprocessor internal registers 3.demonstrate a thorough understanding of programming, implementing programs that search and sort arrays and object-oriented programming concepts. 4. Know the terms applicable to microprocessor, program using Assembly Level Language. 5. Understand the different types of interrupts
15 UPH 63	Core-Solid State Physics	<ol style="list-style-type: none"> 1. Understand the structure of solids 2. Understand the electronic and thermal properties of solid state systems and their technological applications. 3. Understand the working and uses of semiconductors 4. Understand the uses of dielectric

		5 understand the properties of superconductors
15UPH 64	Core-Nano Physics	<ol style="list-style-type: none"> 1. understand the basic concepts in nano particles and crystal 2. understand the properties of measuring the properties. 3. understand the various functions of transmission and scanning electron microscope 4. understand the various carbon nanostructures 5. understand the effects of nanotechnology and its environment.
15UPHE 65	Core-Instrumentation	<ol style="list-style-type: none"> 1. Understand the construction and working principle of various type of measuring instruments and transducers learn difference between accuracy and precision 3. understand DC & AC indicating instruments 4. Know the uses of Oscilloscopes 5. get the knowledge about display devices
	Practicals-Electronics-II	Exposure to a variety of important experiments at appropriate levels that

15 UPH 66		illustrate phenomena discussed in the lecture classes.
15 UPH 67	PRACTICAL Microprocessor 8085	Laboratory skills and Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the lecture classes
15 UPH 68	Practical- Instrumentation	Instrumentation and experimental techniques; methods for quantitative analysis of data and measurement
15 UPHE 61	Elective-Reactor Physics	<ol style="list-style-type: none"> 1. Understand the nuclear reactions 2. Understand about reactor theory 3. understand the differences between fission and fusion reaction 4. Know the various sources of reactor fuel 5. Understand the radioactive effects
Self study paper	Introduction to neutrino physics	To understand importance of neutrino physics and its applications

15PPH11	Core	Mathematical Physics	<ul style="list-style-type: none"> • To know about the algebra and transformation of groups. • To study about the local symmetries and constrained Hamiltonian transformations. • To gather knowledge about theories of hidden symmetries. • To understand the meaning of quantization and path integrals.
15PPH12	Core	Quantum Mechanics - I	<ul style="list-style-type: none"> ❖ To understand the inadequacy of classical mechanics and Schrodinger equation ❖ Able to understand different postulates in wave mechanics ❖ Understand the

			<p>angular momentum parameters in quantum mechanics</p> <ul style="list-style-type: none"> ❖ To acquire skills of solving eigen value problem ❖ Able to understand matrix formulation and transformation theory
15PPH13	Core	Electronics	<ol style="list-style-type: none"> 1. Learn the different electric parameters and units used 2. Understand the feedbacks in amplifiers 3. Understand the functions of operational amplifiers 4. Learn the construction and working of oscillators.
15PPH14	Core	Practicals - I	<ol style="list-style-type: none"> 1. Understand the working of electronic devices. 2. apply these techniques in practical circuits 3. develop the skill in handling instruments

			<p>4. Understand the various characteristics pertaining to diodes and its applications</p> <p>5. Understand the various biasing techniques.</p>
15PPHE11	Elective	Classical Dynamics	<ol style="list-style-type: none"> 1. To gather knowledge about the fundamentals of Lagrangian formulation. 2. To acquire skills in Hamiltonian Formulation. 3. To know the solving ability of central force problems. 4. To understand about rigid body and its oscillatory motions. 5. To acquire the knowledge in the concepts in relativistic mechanics.

15PPHE11	Elective	Non Linear Dynamics	Nonlinear dynamics is the branch of physics that studies systems governed by equations more complex than the linear, $aX+b$ form. Nonlinear systems, such as the weather or neurons, often appear chaotic, unpredictable or counterintuitive, and yet their behaviour is not random
15PPH21	Core	Thermal Physics and Statistical Mechanics	To study the fundamental laws and concepts of thermal physics To know in detail the quantum statistical mechanics
15PPH22	Core	Quantum Mechanics - II	<ul style="list-style-type: none"> • Understand detail about different approximation

			<p>methods</p> <ul style="list-style-type: none"> • Study about scattering theory • Identify the different components of spin and symmetry • Understand about semi classical theory of radiation • Infer knowledge about relativistic quantum mechanics
15PPH23	Core	Electro Magnetic Theory	<ul style="list-style-type: none"> <input type="checkbox"/> To understand electrostatics <input type="checkbox"/> To acquire knowledge in magneto static <input type="checkbox"/> To study in detail about electro dynamics <input type="checkbox"/> To understand the concept of EM wave propagation <input type="checkbox"/> To know the effect

			of EM radiation
15PPH24	Core	Practicals - II	<ol style="list-style-type: none"> 1. Understand the working of non electronic devices. 2. apply these techniques in practical circuits 3. develop the skill in handling instruments
15PPHE21	Elective	Electronic Devices	<p>To know the functional concepts of semiconductor devices</p> <p>To know the various configuration of FET</p> <p>To know the application of solar cell</p>
15PPHE21	Elective	Numerical and statistical methods	<ul style="list-style-type: none"> <input type="checkbox"/> Understand different numerical methods and their applications <input type="checkbox"/> Understand different computational techniques for physical application <input type="checkbox"/> Able to Study the

			<p>various statistical methods for various applications</p> <ul style="list-style-type: none"> □ Identify the different interpolation techniques for computation □ Able to solve simultaneous equations with different methods
15PPHS21	Self Study	Energy Physics	<p>Common forms of energy include the kinetic energy of a moving object, the potential energy stored by an object's position in a force field (gravitational, electric or magnetic), the elastic energy stored by stretching solid objects, the chemical energy released when a fuel burns, the radiant energy carried by light,</p>
15PPH31	Core	Condensed Matter Physics	<p>To know in detail, the crystal diffraction</p>

			<ul style="list-style-type: none"> <input type="checkbox"/> To understand the concept of energy band and to know various types of bonding <input type="checkbox"/> To study about semiconductor crystals <input type="checkbox"/> To study various theories of magnetism <input type="checkbox"/> To understand the concept of superconductivity
15PPH32	Core	Materials Science	<ul style="list-style-type: none"> <input type="checkbox"/> Students learn the basic ideas of crystal growth and nucleation <input type="checkbox"/> Able to understand different crystal growth methods <input type="checkbox"/> Understand the different deposition methods of thin film <input type="checkbox"/> Identify the different Characterization techniques of materials <input type="checkbox"/> Acquire more knowledge about different

			new materials
15PPH33	Core	Communication Physics	<ul style="list-style-type: none"> • Understand the application of analog and digital modulation and various communication systems • Understand the basics of modern cellular telephone systems • Acquire knowledge in radio wave propagation and satellite communication • Study various types of optical fibercouplers • Help to know about fiber optic transmitter
15PPHR31	Core	Practicals - III	<ol style="list-style-type: none"> 1. Understand the working of electronic devices. 2. apply these techniques in practical circuits 3. develop the skill in handling instruments 4. Understand the various characteristics pertaining to diodes and its

			applications 5. Understand the various biasing techniques.
15PPHE31	Elective	Microprocessor and Micro Controller	<ol style="list-style-type: none"> 1. To understand the architecture of microprocessor 8086. 2. To know the about the various semiconductor memories of 8086. 3. To study in detail about the interrupts and various peripheral devices 4. To gather knowledge about micro controller 8051. 5. To study the interfacing applications of 8051
15PPHE31	Elective	Quantum Electro Dynamics	To acquire knowledge in four vector notation

			<p>relativistic equation</p> <p>To study various phenomenon of quantum electrodynamics</p>
15PPH41	Core	Nuclear Physics	<ol style="list-style-type: none"> 1. understand the properties of nucleus, nuclear forces and the model. 2. gain the knowledge of nuclear reactions, accelerators and elementary particles. 3. understand the various models of the nuclei. 4. understand the differences between nuclear fission and fusion 5. Understand the various nuclear reactions
15PPH42	Core	Spectroscopic Techniques	<p>□ To acquire more knowledge in microwave, infrared, Raman, electronic and Mossbauer and resonance spectroscopy</p>

15PPH43	Core	Project	
15PPHE41	Elective	Optoelectronics	<ol style="list-style-type: none"> 1. Understand the overview of communications signals transmitted over optical fibers and optical fiber communication devices. 2. Understand the importance of fiber optic material like GA As laser, LED, modulation formats and modulation and demodulation. 3. Understand and differentiate losses and couplers and its function 4. Understand the basic concepts in the process involving the parameters like modulation and demodulation. 5. Learn the various fiber optic materials.
15PPHE41	Elective	Nondestructive Testing	To acquire good knowledge in various types of non-distractive

			testing
15PPHS41	Self Study	Astro Physics	Astrophysics involves the study of stellar objects. Stellar objects emanate radiation in all bands of the electro magnetic spectrum. The study of the optical band is called Optical Astronomy, the study of the radio band is called Radio Astronomy

COURSE CODE	Course name	Course Outcome
18UPH11	Core-Properties of Matter and Acoustics	<ol style="list-style-type: none"> 1. Understand the properties of matter such as elasticity, surface tension, viscosity etc. 2. Understand the fundamentals and applications of sound and ultrasonics 3. Understand the differences between surface tension and viscosity.

18UPH12	Practicals- Properties of Matter &Acoustics	Apply knowledge of linear motion, forces, energy, and circular motion to explain natural physical processes and related technological advances.
18 UMTA 11	Allied physics I	<ol style="list-style-type: none"> 1. Understand the fundamental concepts 2. Understand the principles and development in properties of matter and Heat Thermodynamics 3. Understand Specific heat capacity of various liquid 4. Understand the differences between surface tension and viscosity 5. Understand the various sources and resources of energy
18 UMTA 21	Allied physics I- practicals	Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the lecture classes
		<ol style="list-style-type: none"> 1. Understand the basic concepts and methods used to study the behaviour of gases, transmission of heat and liquefaction of gases 2. Know the statistical behaviour of an ideal gas an electron gas and a photon

18 UPH 21	Heat and thermodynamics	<p>gas have been discussed.</p> <p>3. Know the basic concepts and the methods to study the properties of radiations.</p> <p>4. Correlate the parameters on transport phenomena and viscosity of gases.</p> <p>5. Understand the concepts in first and second law of thermodynamics.</p>
18 UPH 22	Core-Practical-Heat and Thermodynamics	<p>Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the lecture classes. Instrumentation and experimental techniques; methods for quantitative analysis of data and measurement uncertainty.</p>
18 UNM 21	Nuclear energy and its application	<p>1. Understand the nuclear reactions</p> <p>2. Understand about reactor theory</p> <p>3. Understand the differences between fission and fusion reaction</p> <p>4. Know the various sources of reactor fuel</p> <p>5. Understand the radioactive effects</p>
18 USB 23	Space science and cosmology	<p>TO enable the learner to have better understanding and insight of glimpses</p>

		of the universe
15 UMTA 21	Allied physics II	<ol style="list-style-type: none"> 1. Understand the fundamental concepts 2. Understand the principles and development in properties of matter and Heat Thermodynamics 3. Understand Specific heat capacity of various liquid 4. Understand the differences between surface tension and viscosity 5. Understand the various sources and resources of energy
18 UMTA 22	Allied physics II-practicals	<ol style="list-style-type: none"> 1. Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the lecture classes
18 UPH 31	Core-Electricity & Magnetism	<ol style="list-style-type: none"> 1. Understand the physical aspects on electricity and magnetism and to apply the principles in day today life. 2. Gain knowledge on basic concepts and elements in ac circuits and its applications 3.determine the various thermo emf parameters.

18 UPH 32	Core-Practical-Electricity & Magnetism	Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the lecture classes. Instrumentation and experimental techniques; methods for quantitative analysis of data and measurement uncertainty.
18 USB 35	Physics for competitive exams	<p>For the purpose of competing in the entrance examinations</p> <p>2.an attempt has been made and tried to present the subject from very elementary level to the required standard level in a simple language</p> <p>3. to make the students to feel easy to revise the subjects quickly at the time of exam</p>
18 UPH 41	Optics and Lasers	<ol style="list-style-type: none"> 1. Gain good knowledge of optics and understand the developments in photonics . 2. Understand the various optical instruments 3. Understand the differences between interference diffraction and polarization 4. Understand the basic concepts in lasers 5.understand the camera and size and resolution power

18 UPH 42	Core-Practical- Optics and Lasers	Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the lecture classes.
18 UPHE 41	Elective- Mechanics	<ol style="list-style-type: none"> 1. Understand the various conservation laws in mechanics. 2. Understand the basic concepts in moment of inertia 3. Learn the various theories on hydrostatics and hydrodynamics 4. solve problems in hydrodynamics and hydrostatics learn the classical mechanics in detail
18UPHE 41	Non conventional energy sources	Exposure to a variety of important Non conventional energy sources
18 USB 32	Everyday electronics	Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the lecture classes
18 UPH 51	Programming with C AND C++	Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the lecture classes.
	Core-Practical- Programming with C & C++	Laboratory skills and Exposure to a variety of important experiments at appropriate levels that illustrate

18 UPH 56		phenomena discussed in the lecture classes.
18UPH 51	Core-Digital Principles	<ol style="list-style-type: none"> 1. Understand the basic tool for the design of digital circuits and the hardware side of computers. 2. Understand the basic concepts in arithmetic circuits 3. Understand the difference between half subtractor and full subtractor 4. Understand the various functions of flip flops and registers 5. Understand the functions of registers and counters.
18 UPH 57	Practical-Digital Principles	Laboratory skills and Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the lecture classes.
18 UPH 53	Electronics-I	<ol style="list-style-type: none"> 1. Understand the working of electronic devices. 2. apply these techniques in practical circuits 3. develop the skill in handling instruments 4. Understand the various characteristics pertaining to diodes

		and its applications 5. Understand the various biasing techniques.
18 UPH 58	PRACTICALS- Electronics-I	1. Learn the different electric parameters and units used 2. Understand the feedbacks in amplifiers 3. Understand the functions of operational amplifiers 4. Learn the construction and working of oscillators.
18 UPH 54	Nuclear Physics	1. Understand the properties of nucleus, nuclear forces and the model. 2. Gain the knowledge of nuclear reactions, accelerators and elementary particles. 3. Understand the various models of the nuclei. 4. Understand the differences between nuclear fission and fusion 5. Understand the various nuclear reactions
18 UPH 55	Fiber Optics	1. Understand the overview of communications signals transmitted over optical fibers and optical fiber communication devices.

		2. Understand the importance of fiber optic material like GA As laser, LED, modulation formats and modulation and demodulation.
18 UPH E51	Elective- Quantum Mechanics & Relativity	1. Understand the postulates of quantum mechanics and capable of solving one dimensional transmission and reflection problems. 2. Understand Debroglie wavelength and the matter waves. 3.solve schrodinger time dependent and time independent equations solve the various problems pertaining to hydrogen atom
18 UPHE 51	Geophysics	1. Gain good knowledge of earth and understand the saving of life 2. Understand the various earth componeents
18 UPH 61	Electronics-II	1. Learn the different electric parameters and units used 2. Understand the feedbacks in amplifiers 3. Understand the functions of operational amplifiers 4. Learn the construction and working

		of oscillators
18 UPH 66	Practicals- Electronics-II	Exposure to a variety of important experiments at appropriate levels that illustrate phenomena discussed in the lecture classes.
18 UPH 62	Core- Microprocessor 8085	<ol style="list-style-type: none"> 1. Understand the microprocessor hardware and software 2,write programs using Assembly language and describe the purpose of microprocessor internal registers 3.demonstrate a thorough understanding of programming, implementing programs that search and sort arrays and object-oriented programming concepts. 4. Know the terms applicable to microprocessor, program using Assembly Level Language. 5. Understand the different types of interrupts
18 UPH 67	PRACTICAL Microprocessor 8085	Laboratory skills and Exposure to a variety of important experiments at appropriate levels that illustrate

		phenomena discussed in the lecture classes
18 UPH 63	Core-Solid State Physics	<ol style="list-style-type: none"> 1. Understand the structure of solids 2. Understand the electronic and thermal properties of solid state systems and their technological applications. 3. Understand the working and uses of semiconductors 4. Understand the uses of dielectric 5. understand the properties of superconductors
18UPHE 64	Core-Instrumentation	<ol style="list-style-type: none"> 1. Understand the construction and working principle of various type of measuring instruments and transducers learn difference between accuracy and precision 3. understand DC & AC indicating instruments 4. Know the uses of Oscilloscopes 5. get the knowledge about display devices
18 UPH 68	Practical-Instrumentation	Instrumentation and experimental techniques; methods for quantitative analysis of data and measurement

18 UPHE 61	Elective-Reactor Physics	<ol style="list-style-type: none"> 1. Understand the nuclear reactions 2. Understand about reactor theory 3. understand the differences between fission and fusion reaction 4. Know the various sources of reactor fuel 5. Understand the radioactive effects
18UPH 61	Core-Nano Physics	<ol style="list-style-type: none"> 1. understand the basic concepts in nano particles and crystal 2. understand the properties of measuring the properties. 3. understand the various functions of transmission and scanning electron microscope 4. understand the various carbon nanostructures 5. understand the effects of nanotechnology and its environment.
18UPH E61	Spectroscopy	<input type="checkbox"/> To acquire more knowledge in microwave, infrared, Raman, electronic and Mossbauer and resonance spectroscopy
Self study paper	Crystal growth and characterization	<input type="checkbox"/> Students learn the basic ideas of crystal growth and nucleation <input type="checkbox"/> Able to understand different crystal growth methods

		<input type="checkbox"/> Understand the different deposition methods of thin film <input type="checkbox"/> Identify the different Characterization techniques of materials <input type="checkbox"/> Acquire more knowledge about different new materials
Self study paper	Thin film growth and technology	<input type="checkbox"/> Students learn the basic ideas of Thin film growth and technology <input type="checkbox"/> Able to understand different Thin film growth methods <input type="checkbox"/> Understand the different deposition methods of thin film <input type="checkbox"/> Identify the different Characterization techniques of materials

18PPH11	Core	Mathematical Physics	<ul style="list-style-type: none"> • To know about the algebra and transformation of groups. • To study about the local symmetries and constrained Hamiltonian transformations. • To gather knowledge about theories of hidden symmetries. • To understand the meaning of quantization and path integrals.
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18PPH12		Quantum Mechanics - I	<ul style="list-style-type: none"> ❖ To understand the inadequacy of classical mechanics and Schrodinger equation ❖ Able to understand different postulates in wave mechanics ❖ Understand the angular momentum parameters in quantum mechanics ❖ To acquire skills of solving eigen value problem ❖ Able to understand matrix formulation and transformation theory
18PPH13	Core	Classical Dynamics	<ol style="list-style-type: none"> 1. To gather knowledge about the fundamentals of Lagrangian formulation. 2. To acquire skills in Hamiltonian Formulation. 3. To know the solving ability of central force problems. 4. To understand about rigid body and its oscillatory motions. 5. To acquire the knowledge in the concepts in relativistic mechanics.
18PPH14	Core	Practicals - I	<ol style="list-style-type: none"> 1. Understand the working of electronic devices. 2. apply these techniques in practical circuits 3. develop the skill in handling instruments 4. Understand the various characteristics pertaining to diodes and its applications 5. Understand the various biasing techniques.

18PPH15	Core	Practicals - II	<ol style="list-style-type: none"> 1. Understand the working of non electronic devices. 2. apply these techniques in practical circuits 3. develop the skill in handling instruments 4. Understand the various characteristics pertaining to diodes and its applications 5. Understand the various biasing techniques.
18PPHE11	Elective	Applied Electronics	<ol style="list-style-type: none"> 1. Learn the different electric parameters and units used 2. Understand the feedbacks in amplifiers 3. Understand the functions of operational amplifiers 4. Learn the construction and working of oscillators.
18PPHE11	Elective	Semiconductor Physics	Semiconductor physics explaining what N-type and P-type materials are along with conductors, insulators and resistivity
18PPH21	Core	Thermodynamics and Statistical Mechanics	<ol style="list-style-type: none"> 1. To study the fundamental laws of thermodynamics. 2. To acquire knowledge about the concepts of statistical mechanics. 3. To know about the ensembles and its importance 4. To know about the quantum statistical mechanics. 5. To gather the skills of laws of specific heat capacity and its characteristics.
18PPH22	Core	Quantum Mechanics - II	<ul style="list-style-type: none"> • Understand detail about different approximation methods • Study about scattering theory

			<ul style="list-style-type: none"> • Identify the different components of spin and symmetry • Understand about semi classical theory of radiation • Infer knowledge about relativistic quantum mechanics
18PPH23	Core	Electromagnetic Theory and Plasma Physics	<ul style="list-style-type: none"> <input type="checkbox"/> To understand electrostatics <input type="checkbox"/> To acquire knowledge in magneto static <input type="checkbox"/> To study in detail about electro dynamics <input type="checkbox"/> To understand the concept of EM wave propagation <input type="checkbox"/> To know the effect of EM radiation
18PPH24	Core	Practicals - III	<ol style="list-style-type: none"> 1. Understand the working of electronic devices. 2. apply these techniques in practical circuits 3. develop the skill in handling instruments 4. Understand the various characteristics pertaining to diodes and its applications 5. Understand the various biasing techniques.
18PPH25	Core	Practicals - IV	<ol style="list-style-type: none"> 1. Understand the working of non electronic devices. 2. apply these techniques in practical circuits 3. develop the skill in handling instruments 4. Understand the various characteristics pertaining to diodes and its applications 5. Understand the various biasing techniques.

18PPHE21	Elective	Numerical and Statistical	<input type="checkbox"/> Understand different numerical methods and their applications <input type="checkbox"/> Understand different computational techniques for physical application <input type="checkbox"/> Able to Study the various statistical methods for various applications <input type="checkbox"/> Identify the different interpolation techniques for computation <input type="checkbox"/> Able to solve simultaneous equations with different methods
18PPHE21	Elective	Theoretical Physics	Theoretical physics is the development of mathematical formalisms and computational protocols for describing all aspects of objects found in the world around us and their interaction
18PPH31	Core	Condensed Matter Physics	<p>To know in detail, the crystal diffraction</p> <input type="checkbox"/> To understand the concept of energy band and to know various types of bonding <input type="checkbox"/> To study about semiconductor crystals <input type="checkbox"/> To study various theories of magnetism <input type="checkbox"/> To understand the concept of superconductivity
18PPH32	Core	Material Synthesis and Characterization	Materials Synthesis. Inorganic nanomaterials synthesis and characterization capabilities include solution-phase and chemical vapor deposition methods, electrochemical deposition, x-ray diffraction, thermal measurement

			equipment
18PPH33	Core	Communication Physics	<ul style="list-style-type: none"> • Understand the application of analog and digital modulation and various communication systems • Understand the basics of modern cellular telephone systems • Acquire knowledge in radio wave propagation and satellite communication • Study various types of optical fibercouplers • Help to know about fiber optic transmitter
18PPH34	Core	Microprocessor Practicals - V	<p>.demonstrate a thorough understanding of programming, implementing programs that search and sort arrays and object-oriented programming concepts.</p> <p>4. Know the terms applicable to microprocessor, program using Assembly Level Language.</p> <p>5. Understand the different types of interrupts</p>
18PPH35	Core	Programming using microcontroller Practicals - VI	1. Understand the microprocessor hardware and software
18PPHE35	Elective	Micro Processor and Micro	6. To understand the architecture of microprocessor 8086.

		Controllers	<ol style="list-style-type: none"> 7. To know the about the various semiconductor memories of 8086. 8. To study in detail about the interrupts and various peripheral devices 9. To gather knowledge about micro controller 8051. <p>To study the interfacing applications of 8051</p>
18PPHE35	Elective	General Relativity and Cosmology	General Relativity and Cosmology gives undergraduate students an overview of the fundamental ideas behind the geometric theory of gravitation
18PPH41	Core	Advanced Nuclear Physics	<ol style="list-style-type: none"> 1. understand the properties of nucleus, nuclear forces and the model. 2. gain the knowledge of nuclear reactions, accelerators and elementary particles. 3. understand the various models of the nuclei. 4. understand the differences between nuclear fission and fusion 5. Understand the various nuclear reactions
18PPH42	Core	Spectroscopic Techniques	□ To acquire more knowledge in microwave, infrared, Raman, electronic and Mossbauer and resonance spectroscopy
18PPH43	Core	Project	
18PPHE41	Elective	Nano Science and Technology	Nanotechnology can enable sensors to detect very small amounts of chemical vapors. Various types of detecting

			elements, such as carbon nanotubes, zinc oxide nanowires or palladium nanoparticles can be used in nanotechnology-based sensors
18PPHECC02	ECC	Energy Physics	Common forms of energy include the kinetic energy of a moving object, the potential energy stored by an object's position in a force field (gravitational, electric or magnetic), the elastic energy stored by stretching solid objects, the chemical energy released when a fuel burns, the radiant energy carried by light,
18PPHECC03	ECC	Microprocessor based Physical Instrument	<ol style="list-style-type: none"> 1. Understand the microprocessor hardware and software 2,write programs using Assembly language and describe the purpose of microprocessor internal registers 3.demonstrate a thorough understanding of programming, implementing programs that search and sort arrays and object-oriented programming concepts. 4. Know the terms applicable to microprocessor, program using Assembly Level Language. 5. Understand the different types of interrupts
18PPHECC04	ECC	Medical Physics	Medical physics also called biomedical physics, medical biophysics, applied physics in medicine, physics

			applications in medical science, radiological physics or hospital radio-physics is, in general, the application of physics concepts, theories, and methods to medicine or healthcare
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PROGRAM SPECIFIC OUTCOMES

AND COURSE OUTCOMES for M.PHIL.

2018 – 2019

Programe outcomes:

1. தமிழ் இலக்கிய உலகில் சிறந்த ஆய்வுகளை படைப்பதற்கு இளநிலை ஆய்வானது அடிப்படையாக அமைகிறது.
2. உலகத் தத்துவ சிந்தனைகள் பற்றியும், திறனாய்வு முறைகள் பற்றியும் அறிய உதவுகிறது.
3. இலக்கண, இலக்கியங்களில் கோட்பாடுகளைப் பொருத்திப் பார்க்கும் அணுகுமுறைகள் பற்றி அறியலாம்.

PROGRAM SPECIFIC OUTCOMES

AND COURSE OUTCOMES for M.A.

2018 – 2019

Programe outcomes:

1. முதுகலைத் தமிழிலக்கியம் படிப்பதன் மூலம் தமிழ் இலக்கண, இலக்கிய அறிவினைப் பெற முடியும்.

2. நாவல், சிறுகதை, கவிதை போன்ற இலக்கிய வடிவங்கள் பற்றியும், படைப்பாளர்கள் பற்றியும் படைப்பு பற்றியும் அறிந்து கொள்ள முடியும்.
3. தமிழின் தோற்றம், தமிழின் பழமை, தமிழ் செம்மொழியான சிறப்பு போன்றவற்றை உணர்ந்து கொள்ள முடியும்.
4. நாட்டார் வழக்குகள், வட்டார வழக்குகள் போன்றவற்றையும் அறிய முடியும். பெண்ணியம், தலித்தியம், மார்க்சியம் போன்ற இயக்கங்கள் பற்றியும் அறிந்துக் கொள்ள முடியும்.
5. போட்டித் தேர்வுகள் எழுதுவதற்கு இப்படிப்பானது துணைபுரியும்.

Name of the course	Course outcomes
இக்கால இலக்கியம் -கவிதை நாடகம்	1. நவீனத் தமிழ்க் கவிதைகளின் போக்குகளை அறிதல் 2. கவிதைகளில் உருவ உள்ளடக்க மாற்றங்களை அறிதல். 3. நாடக இலக்கியம் - காலந்தோறும் பெற்ற மாற்றங்களைக் காணல்
இக்கால இலக்கியம்- நாவலும் சிறுகதையும்	1. நாவல், சிறுகதை வடிவ உள்ளடக்கப் போக்குகளை அறிதல் 2. வடிவ, உள்ளடக்கப் போக்குகளை நாவல், சிறுகதைகளுள் பொருத்துதல் 3. சமூக, அரசியல் போக்குகள் படைப்பாளரிடம் ஏற்படுத்திய தாக்கத்தினை நாவல், சிறுகதைகளின்வழி இனங்காணல்.
காலந்தோறும் தமிழர் பண்பாடு	1. காலந்தோறும் தமிழர்களின் பண்பாட்டினையும், கலைகளையும் அறிதல். 2. அதன் வழியாக தமிழர்களின் கருத்தியல் சிந்தனைகளை அறியும்படி செய்தல் 3. களத்திற்கு அழைத்துச்சென்று அனுபவங்களைப் பெறுதல்
இலக்கியத் திறனாய்வு	1. தமிழ் திறனாய்வு முறையினை விளக்குதல். 2. மேலைத் திறனாய்வு முறையினை விளக்குதல். 3. தமிழ்த் திறனாய்வு முறையியலை வரலாற்று நோக்கில் அறிதல்.
கணினித் தமிழ்	
செம்மொழித் தமிழ்	1. தமிழ் மொழியின் செவ்வியல் தன்மைகளைக் கண்டுணர்தல் 2. தமிழ் மொழி செம்மொழியான வரலாற்றை அறிதல்
இலக்கியத் திறனாய்வு வரலாறு	1. தமிழ் திறனாய்வு முறையினை விளக்குதல் 2. மேலைத் திறனாய்வு முறையினை விளக்குதல் 3. தமிழ்த் திறனாய்வு முறையியலை வரலாற்று நோக்கில் அறிதல்

PROGRAM SPECIFIC OUTCOMES

AND COURSE OUTCOMES for B.A .

2018 – 2019

Programe outcomes:

1. இளங்கலைத் தமழிலக்கியம் தமிழின் அடிப்படை இலக்கணத்தைக் கற்றுத் தருகிறது.
2. தமிழ் இலக்கிய வரலாறுகளையும், தமிழின் தொன்மையையும் அறியச் செய்கிறது.
3. போட்டித் தேர்வுகளை எழுதுவதற்கான பயிற்சியைத் தருகிறது.
4. படைப்பாளர்களை அறியச் செய்து படைப்புகள் உருவாக்குவதற்கான பயிற்சியை அளிக்கிறது.

Name of the course	Course outcomes	Year
நாட்டுப்புறவியல்	1. நாட்டுப்புறவியல் அறிதல். 2. நாட்டுப்புறக் கலைகளை கற்க ஆர்வம் செய்தல். 3. நாட்டார் பார்வை புரிந்து கொள்ளுதல். 4. நாட்டார் பாடல் அறிதல். 5. பழமொழி, விடுகதைகளை அறிதல்.	2018-19
மொழிபெயர்ப்புக் கலை	1. மொழிபெயர்ப்பு பற்றிய விளக்கங்களை அறிந்து கொள்ளுதல். 2. மொழிபெயர்ப்பின் வகைகளை அறிந்து கொள்ளுதல்.	2018-19

	<p>3. தரமான படைப்புக்களை மொழிபெயர்க்கப் பயிற்சி அறித்தல்.</p> <p>4. பிறமொழி இலக்கிய அறிவை மேம்படுத்த உதவுதல்.</p> <p>5. மொழிபெயர்ப்பாளராக ஆர்வத்தைத் தூண்டுதல்.</p>	
சுற்றுலா	<p>1. சுற்றுலாவின் முக்கியத்துவத்தை உணர்தல்.</p> <p>2. பல்வேறு சுற்றுலாத் தளங்களை அறிதல். சுற்றுலாத் துறையில் வேலை வாய்ப்பினைப் பெறுதல்.</p> <p>3. தமிழக ஓவியம் தொடர்பான சுற்றுலாத் தளங்களை அறிவித்தலும், அறிதலும்.</p> <p>4. தமிழக சிற்பங்கள் தொடர்பான சுற்றுலாத் தளங்களை அறிவித்தலும், அறிதலும்</p> <p>5. பல்வேறு சுற்றுலா இடங்கள் கண்டு அனுபவம் பெற்று பயணக்கட்டுரை எழுதுதல். சுற்றுலா தோற்றம் வளர்ச்சி பற்றி அறிதல்.</p>	2018-19
மக்கள் தகவலியல்	<p>1. தகவல் தொடர்பியல் அறிமுகம் செய்தல்</p> <p>2. தகவல் தொடர்பியல் சாதனங்களைக் கூறல்.</p> <p>3. நவீன ஊடகத்தின் தன்மைகளைக் கையாளக் கற்றுக் கொடுத்தல்.</p>	2018-19

	<p>4. ஊடகங்களுக்கு எழுத கற்றுக் கொடுத்தல்.</p> <p>5. ஊடகத்தில் வேலை வாய்ப்பை உருவாக்குதல்.</p>	
மக்கள் தகவல் தொடர்பியல்	<p>1. மக்கள் தகவல் தொடர்பியல் வரலாற்றை அறிதல்.</p> <p>2. நவீன ஊடகப் பெருக்கத்தை அறிதல்</p> <p>3. நவீன ஊடகத்துறையில் வேலை வாய்ப்பைப் பெறுதல்</p> <p>4.. ஊடகங்களுக்கு எழுதல்.</p> <p>5. நவீன ஊடகச் சாதனங்களைக் கையாளுதல்.</p>	2018-19
விளம்பர மொழி	<p>1. விளம்பரத்தின் அவசியத்தை வலியுறுத்துதல்.</p> <p>2. விளம்பரங்களின் பல்வேறு வடிவங்களை அறிதல்.</p> <p>3. விளம்பர சாதனங்கள் பற்றி அறிதல்.</p> <p>4. விளம்பரங்கள் உருவாக்கப் பயிற்சி அளித்தல்.</p>	2018-19
இக்கால இலக்கியம்- கவிதை, நாடகம்	<p>1. புதுக்கவதை தோற்றம் வளர்ச்சியைக் கூறல்.</p> <p>2. புதுக்கவிதையின் பொதுவாக இலக்கிய தன்மையை உணர்த்துதல்.</p> <p>3. நாடகத்தின் தோற்றம் வளர்ச்சியை அறிதல்.</p> <p>4. ஒரு நாடகத்தைப் படித்து நாடகத் தன்மையைப் புரிதல்.</p> <p>5. படைப்பிலக்கிய தன்மையை மாணவர்கள்</p>	2018-19

	மூலம் உருவாக்குதல்.	
இக்கால இலக்கியம்- நாவல், சிறுகதை, உரைநடை	1. நாவல், சிறுகதை, உரைநடையினை மாணவர்களுக்கு அறிமுகம் செய்தல். 2. நாவல் பற்றிய பொதுத்தன்மைகளை அறிந்து கொள்ளல். 3. நாவல் பன்முக வெளியை உணர்த்துதல். 4. சிறுகதை தோற்றம் வளர்ச்சியை அறிதல். 5. வடிவம் வகைகளில் ஒன்றுடன் பொருத்தி விளக்குதல்.	2018- 19
இலக்கியத் திறனாய்வு,	1. இலக்கியத்தின் கூறுகளை மாணவர்கள் அறிதல். 2. திறனாய்வு பற்றிய பல்வேறு முறையினை அறிதல். 3. திறனாய்வு முறையினை இலக்கிய வகைமைகளில் அடக்குதல்.	2018- 19
செம்மொழித் தமிழ்	1. தமிழ் மொழியின் தொன்மை செம்மை வளமை முதலானவற்றை அறிதல் 2. உலகச் செம்மொழிகளின் இயல்பை அறிதல். 3. தமிழ்ச் செம்மொழியான வரலாற்றை அறிதல். 4. செம்மொழி இலக்கியங்களின் இயல்பை அறிதல்.	2018- 19
அறிவியல் தமிழ்	1. வா.செ.குழந்தைசாமியின் அறிவியல் தமிழ்ச்	2018- 19

	செய்தியை அறிதல். 2. முனைவர் இராதாசெல்லப்பன் பதிப்பித்த அறிவியல் தமிழ்ச் செய்தியை அறிதல்.	
விளம்பரக்கலை	1. விளம்பரத்தின் அவசியத்தை வலியுறுத்துதல். 2. விளம்பரங்களின் பல்வேறு வடிவங்களை அறிதல். 3. விளம்பர சாதனங்கள் பற்றி அறிதல். 4. விளம்பரங்கள் உருவாக்கப் பயிற்சி அளித்தல்.	2018- 19

COURSE OUTCOMES: B.A.TAMIL.

பொதுத்தமிழ்:

- பண்டைத் தமிழரின் வாழ்வியல் முறையை அறிதல்.
- காப்பிய இலக்கியத்தின் சிறப்புகளை அறிதல்
- யாப்பிலக்கணம் கற்றலின் வாயிலாக மரபுக்கவிதை படைக்கும் தழறனை உருவாக்குதல்.
- இலக்கிய வடிவ வகைகளை அறிமுகப்படுத்துதல்.
- புதினப் புனைவுகளைச் சமூக வாழ்வியலோடு பொருத்தி விளக்குதல்.
- உரைநடைக் கட்டுரைகள் வழி இலக்கிய மேன்மையினைக் கற்பித்தல்.
- இலக்கிய வரலாற்றின் வழிப்போட்டித் தேர்வுக்கு மாணவர்களைத் தயார்படுத்துதல்.
- மொழிபெயர்ப்பின் வழி மாணவர்களுக்கு மொழியறிவை வளர்த்தல்.

- சிறுகதைப் புனைவுகளைச் சமூக வதர்வியலோடு பொருத்தி விளக்குதல்.
- மாணவர்கள் பிழையின்றி எழுத, பேச இலக்கணத்தைக் கறிபித்தல்.

நன்னூல்- எழுத்து:

- மொழி அமைப்பை அறிதல்.
- மொழியின் சிறப்புஉணர்வதால் தமிழ்மொழியில் ஆர்வம் மிகுதல்.
- மொழி வளர்ச்சி மொழி நெகிழ்வின் திறம் உணர்தல்.
- பிழையின்றி மொழியைப் பேசவும் எழுதவும் அறிதல்.
- மொழி உருவாக்கம் பற்றி அறிதல்.

இக்கால இலக்கியம் (நாவல், சிறுகதை, உரைநடை):

- நாவல், சிறுகதை, உரைநடையினை மாணவர்களுக்கு அறிமுகம் செய்தல்.
- நாவல் பற்றிய பொதுத்தன்மைகளை அறிந்து கொள்ளல்.
- நாவல் பன்முக வெளியை உணர்த்துதல்.
- சிறுகதை தோற்றம் வளர்ச்சியை அறிதல்.
- வடிவம் வகைகளில் ஒன்றுடன் பொருத்தி விளக்குதல்.

சுற்றுலாவியல்:

- சுற்றுலாவின் முக்கியத்துவத்தை உணர்தல்.
- புல்வேறு சுற்றுலாத் தளங்களை அறிதல்.
- சுற்றுலாத் துறையில் வேலை வாய்ப்பினைப் பெறுதல்.
- தமிழக ஓவியம் தொடர்பான சுற்றுலாத் தளங்களை அறிவித்தலும், அறிதலும்.
- தமிழக சிற்பங்கள் தொடர்பான சுற்றுலாத் தளங்களை அறிவித்தலும், அறிதலும்.
- புல்வேறு சுற்றுலா இடங்கள் கண்டு அனுபவம் பெற்று பயணக்கட்டுரை எழுதுதல்.
- சுற்றுலா தோற்றம் வளர்ச்சி பற்றி அறிதல்.

நன்னூல்- சொல்:

- சொல் அமைப்பை அறிதல்.
- முந்துநூல் காயல்.
- தொகுத்தவை அளித்தல்.
- விரித்தவை உணர்தல்
- வகுத்தவை அறிதல்.

குரனெயஅநவெயடள முக உழஅிரவநசள:

- கணினியின் அடிப்படையைத் தெரிந்து கொள்ளுதல்.
- கணினி அறிவைப் பெற்று வேலை வாய்ப்பைப் பெறுதல்.

விளம்பரக்கலை:

- விளம்பரத்தின் அவசியத்தை வலியுறுத்துதல்.
- விளம்பரங்களின் பல்வேறு வடிவங்களை அறிதல்.
- விளம்பர சாதனங்கள் பற்றி அறிதல்.
- விளம்பரங்கள் உருவாக்கப் பயிற்சி அளித்தல்.

மக்கள் தகவலியல் வரலாறு:

- தகவல் தொடர்பியல் அறிமுகம் செய்தல்
- தகவல் தொடர்பியல் சாதனங்களைக் கூறல்.
- நவீன ஊடகத்தின் தன்மைகளைக் கையாளக் கற்றுக் கொடுத்தல்.
- ஊடகங்களுக்கு எழுத கற்றுக் கொடுத்தல்.
- ஊடகத்தில் வேலை வாய்ப்பை உருவாக்குதல்.

இலக்கணம்- பொருள்- அகமும், புறமும்:

- நம்பியகப்பொருள் - அக மரபுகளைத் தொரிவித்தல்.
- புறப்பொருள் மரபைத் தெரிவித்தல்.

இக்கால இலக்கியம் 2 –கவிதையும் நாடகமும்:

- புதுக்கவதை தோற்றம் வளர்ச்சியைக் கூறல்.
- புதுக்கவிதையின் பொதுவாக இலக்கிய தன்மையை உணர்த்துதல்.
- நாடகத்தின் தோற்றம் வளர்ச்சியை அறிதல்.
- ஒரு நாடகத்தைப் படித்து நாடகத் தன்மையைப் புரிதல்.
- படைப்பிலக்கிய தன்மையை மாணவர்கள் மூலம் உருவாக்குதல்.

இதழியல்:

- இதழியல் துறையை அறிமுகம் செய்தல்.
- இதழியல் துறைக்குக் கூட்டிச் செல்லல்.
- இதழ்களின் பல்வேறு வகைகளை விளக்குதல்.
- இதழ்களுக்கு எழுதக் கற்றுக் கொடுத்தல்.
- இதழியல் துறையில் மாணவர்களை வேலை வாய்ப்புப் பெற செய்தல்.

இலக்கணம் - யாப்பும் அணியும்:

- தமிழ் இலக்கண வளர்ச்சியில் யாப்பருங்கலக் காரிகை கூறும் கவிதை இலக்கணத்தை அறிதல்.
- அணி இலக்கண விதிமுறை காணல்.

தமிழ் இலக்கிய வரலாறு:

- தமிழ் மாணவர்கள் கால வளர்நிலை இலக்கிய வரலாற்று அடிப்படையில் இலக்கியச் சிறப்புக்களை அறிதல்.
- இலக்கிய வடிவ உள்ளடக்கச் சிறப்பை அறிவித்தல்

மக்கத் தகவல் தொடர்பியல்:

- மக்கள் தகவல் தொடர்பியல் வரலாற்றை அறிதல்.
- நவீன ஊடகப் பெருக்கத்தை அறிதல்
- நவீன ஊடகத்துறையில் வேலை வாய்ப்பைப் பெறுதல்
- ஊடகங்களுக்கு எழுதல்.

- நவீன ஊடகச் சாதனங்களைக் கையாளுதல்.

மொழிபெயர்ப்புக் கலை:

- மொழிபெயர்ப்பு பற்றிய விளக்கங்களை அறிந்து கொள்ளுதல்.
- மொழிபெயர்ப்பின் வகைகளை அறிந்து கொள்ளுதல்.
- தரமான படைப்புக்களை மொழிபெயர்க்கப் பயிற்சி அறித்தல்.
- பிறமொழி இலக்கிய அறிவை மேம்படுத்த உதவுதல்.
- மொழிபெயர்ப்பாளராக ஆர்வத்தைத் தூண்டுதல்.

சிற்றிலக்கியம்:

- சிற்றிலக்கியங்கள் பற்றி அறிந்து கொள்ளுதல்.
- சிற்றிலக்கிய வகைமைகளை அறிதல்.
- சிற்றிலக்கியங்கள் வாயிலாக அக்கால மக்களின் பழக்க வழக்கங்களை அறிதல்.
- காலவாரியாக வேறுபட்டு இருக்கும் தமிழ் இலக்கியங்களில் சிற்றிலக்கியங்களின் முக்கியத்துவத்தை உணர்தல்.
- சிற்றிலக்கியங்களின் சிறப்பை அறிதல்.

சமய இலக்கியம்:

- பல சமயங்களின் போட்பாடுகளை இலக்கியத்தின் வழி அறிதல்.
- சமய இலக்கியத்தின் வழி மாணவர்களிடையே மத நல்லிணக்கத்தை உருவாக்குதல்.
- சமய நெறிக்கு முரண்பட்ட சித்தர்களைப் பற்றி அறிந்து கொள்ளுதல்.

காப்பியம்:

- காப்பியங்களை அறிந்து கொள்ளுதல்.
- காப்பியங்கள் வழி வாழ்வியலை அறிந்து கொள்ளுதல்.
- காப்பியங்கள் வழி நன்னெறிப்படுத்துதல்.
- வாழ்க்கைக்குரிய கருத்துக்களைப் பெற்று வாழ்ப்பழகுதல்.

அறிவியல் தமிழ்:

- வா.செ.குழந்தைசாமியின் அறிவியல் தமிழ்ச் செய்தியை அறிதல்.
- முனைவர் இராதாசெல்லப்பன் பதிப்பித்த அறிவியல் தமிழ்ச் செய்தியை அறிதல்.

இலக்கியத் திறனாய்வு:

- இலக்கியத்தின் கூறுகளை மாணவர்கள் அறிதல்.
- திறனாய்வு பற்றிய பல்வேறு முறையினை அறிதல்.
- திறனாய்வு முறையினை இலக்கிய வகைமைகளில் அடக்குதல்.

செம்மொழித் தமிழ்:

- தமிழ் மொழியின் தொன்மை செம்மை வளமை முதலானவற்றை அறிதல்
- உலகச் செம்மொழிகளின் இயல்பை அறிதல்.
- தமிழ்ச் செம்மொழியான வரலாற்றை அறிதல்.
- செம்மொழி இலக்கியங்களின் இயல்பை அறிதல்.

அற இலக்கியம்:

- அற இலக்கியங்களை அறிமுகம் செய்தல்
- அறம் நீதியின் அவசியத்தை வலியுறுத்தல்.
- மாணவர்களை அற இலக்கியங்கள் வழி ஒழுக்கச்சீலர்களாக உருவாக்குதல்.

சங்க இலக்கியம்:

- சங்க இலக்கிய நூல்களின் வழி மனித சமுதாயத்தின் நாகரிகப் பிரதிபலிப்பை அறிதல்.
- சமயம் சாரா இலக்கியங்களான சங்க இலக்கியங்களின் உறவுகள், ஒழுகலாறுகள், அறநெறிகளைப் படித்துணர்தல்.
- இளங்கலைப் பயில்வோர் பழமையான சங்க இலக்கியத்தைப் பற்றிய அடிப்படை அறிவைப் பெறுவதும் சங்க இலக்கியத்தின் சிறப்புகளை நுகர்வதும் நோக்கமாகும்.
- தமிழர்களின் வாழ்வியல் தமிழ்ப்பழங்குணைபட பாடல் வழி அறிதல்.

கிறித்தவ இலக்கியம்:

- கிறித்தவர்கள் தமிழுக்கு ஆற்றிய பணிகளை அறிதல்.
- கிறித்தவ கருத்தியல் தமிழ் இலக்கிய வகைமைகளில் புனையப்பட்டுள்ளதை அறிதல்.

நாட்டுப்புறவியல்:

- நாட்டுப்புறவியல் அறிதல்.
- நாட்டுப்புறக் கலைகளை கற்க ஆர்வம் செய்தல்.
- நாட்டார் பார்வை புரிந்து கொள்ளுதல்.
- நாட்டார் பாடல் அறிதல்.
- பழமொழி, விடுகதைகளை அறிதல்.

நாடகக்கலை:

- நாடகம் எழுதும் முறையைக் கற்றுக் கொடுத்தல்.
- நாடகம் கடித்தல் பயிற்சியைப் பெறுதல்.
- மேடை அமைப்பு முறையை அறிதல்.
- ஒப்பனை, அலங்காரம் நுணுக்கங்களைக் கற்றல்.
- வசன உச்சரிப்பு, எழுத்துப் பயிற்சி அறித்தல்.

பெண்ணியம்:

- பெண்ணியம் தோன்றக் காரணம் பற்றி அறிதல்.
- இந்தியாவின் பெண்ணியம் தோற்றம் வளர்ச்சி பற்றி அறிதல்.
- பேண்களுக்கான சட்டங்கள் பற்றி அறிதல்.

பேச்சுக்கலை:

- மாணவர்கள் அவையிலும் அரங்கத்திலும் திறமையாக பேசு கற்பித்தல்.

படைப்பிலக்கியமும் மொழிபெயர்ப்பும்:

- தமிழ் இலக்கிய வரலாற்றைப் புரிந்து கொள்ளல்.
- மரபு கவிதையில் பயிற்சி அளித்தல்.

- சிறுகதை படைப்பாக்கம் செய்தல்
- மொழிபெயர்ப்பு தன்மைகளை விளக்குதல்.
- படைத்ததை புத்தமாக உருவாக்குதல்.

தமிழக வரலாறும் தமிழக பண்பாடும்:

- தமிழகத்தின் வரலாற்றை அறிதல்
- தமிழரின் பண்பாட்டினை அறிதல்.

கவின் கலைகள்:

- ஓவியம், சிற்பம், கட்டடக்கலை, இசைக்கலை, கூத்துக்கலை, வாவியக்கலை ஆகியவற்றை அறிதல்.

தமிழ் கற்பிக்கும் முறை:

- தமிழாசிரியர்கள் தமிழ் கற்பிக்கும் முறையை அறிவித்தல்.
- இளங்கலை பட்டப்படிப்பு முடிந்தபின் கல்வியியல் கல்வி பயிலவோ ஆசிரியர் பயிற்சியில் சேரவோ இந்தப் பாடத்திட்டம் உதவி செய்யும்.
- பொதுத்தமிழ் சிறப்புத்தமிழ் கற்பிக்கும் பாடநூட்பங்களை கற்றலும் கற்பித்தலும்
- மரபு வழி செய்யுள் இயற்றக் கற்பித்தல்

ஆ.யு.வுயஅடை:

இலக்கணம் எழுத்து:

- தமிழ் எழுத்திரக்கணத்தை அறிதல்
- மொழியியலார் கண்ணோட்டத்தில் எழுத்திலக்கணத்தைக் காணுதல்

இக்கால இலக்கியம் கவிதையும் நாடகமும்:

- நவினத் தமிழ்க் கவிதைகளின் போக்குகளை அறிதல்
- கவிதைகளில் உருவ உள்ளடக்க மாற்றங்களை அறிதல்
- நாடக இலக்கியம் - காலந்தோறும் பெற்ற மாற்றங்களைக் காணல்

இக்கால இலக்கியம்- நாவலும் சிறுகதையும்:

- நாவல், சிறுகதை வடிவ உள்ளடக்கப் போக்குகளை அறிதல்
- வடிவ, உள்ளடக்கப் போக்குகளை நாவல், சிறுகதைகளுள் பொருத்துதல்
- சமூக, அரசியல் போக்குகள் படைப்பாளரிடம் ஏற்படுத்திய தாக்கத்தினை நாவல், சிறுகதைகளின்வழி இனங்காணல்.

காலந்தோறும் தமிழர் பண்பாடு:

- காலந்தோறும் தமிழர்களின் பண்பாட்டினையும், கலைகளையும் அறிதல்.
- ஆதன் வழியாக தமிழர்களின் கருத்தியல் சிந்தனைகளை அறியும்படி செய்தல்
- களத்திற்கு அழைத்துச்சென்று அனுபவங்களைப் பெறுதல்

தமிழ் மொழி வரலாறு:

- தமிழிலக்கியம் கற்கும் மாணவர்கள் தாய்மொழியின் வரலாற்றை அறிதல்
- கால ஓட்டத்தில் தமிழ் மொழியின் வளர்நிலை மாற்றங்களை மாணவர் உணரச்செய்தல்

இலக்கணம் சொல் (தொல்காப்பியமும் மொழியியலும்)

- தமிழ் சொல்லிலக்கணத்தைத் தொல்காப்பியம் மொழியியல் வழி அறிதல்
- மொழியியலார் வழி சொல்லிலக்கணத்தை அறிதல்

பக்தி இலக்கியம்:

- பக்தி இலக்கியத் தோற்றக் காரணிகளை விளக்குதல்
- திருமுறைகள், பிரபந்தங்களின் வடிவ வகைமை வேறுபாடுகளைக் குறிப்பிடுதல்
- திருமுறைகள், பிரபந்தங்களின் உள்ளடக்கச் சிறப்புக்களைச் சான்றுகளுடன் கற்பித்தல்

கிறித்தவமும் தமிழும்:

- கிறித்தவர்கள் தமிழுக்கு ஆற்றிய பணியினை அறிதல்
- கிறித்தவம் வளர்த்த தமிழின் சிறப்புகளை ஆராய்தல்
- கிறித்தவ இலக்கியங்கள் வழி உலக இலக்கியங்கள் குறித்த அறிவு பெறல்

அற இலக்கியம்:

- அற இலக்கியத் தோற்ற பின்புலத்தைக் காணல்
- அறம் குறித்த கருத்தாக்க விளக்கங்களைக் கற்பித்தல்
- கீழ்க்கணக்கு நூல்களின் அமைப்பு உள்ளடக்கச் சிறப்பு, கருத்துப்போக்கு ஆகியவற்றைக் கற்பித்தல்

தமிழ் இலக்கிய வரலாறு:

- தமிழ் இலக்கியங்கள் அனைத்தையும் அறியச்செய்தல்:
- விரிவுரையாளர் தேர்வு, போட்டித் தேர்வுகளுக்குத் தயார் செய்தல்

இலக்கணம்- பொருள். ஆகம், புறம்:

- சங்க கால அகப்புற வாழ்வை இலக்கிய நூல் வழி அறிதல்
- சங்ககால அகப்புற பாடல்களுடன் அவற்றைப் பொருத்திப் பார்த்தல்
- காலந்தோறும் இலக்கண மாற்றங்களைக் காணுதல்

காப்பியம்:

- காப்பிய வடிவ அமைப்பினை அறிதல்
- காப்பிய வளர்நிரையினை அறிதல்
- காப்பிண உள்ளடக்க, உத்திச் சிறப்புகளை உணர்தல்
- காப்பிய நீர்மைகளைகட காப்பியங்களில் பொருத்திப் பார்த்தல்

சிறுநிலக்கியம்:

- சிறுநிலக்கியங்களின் தோற்றம், வளர்ச்சி அறிதல்
- பாட்டியல் நூல்களின் வழி வடிவ, வகைமை வேறுபாடுகளை அறிதல்.
- சிறுநிலக்கியங்களின் உள்ளடக்கச் சிறப்பைத் தேர்ந்ந சான்றுகள் வழி விளக்குதல்

தமிழ் இலக்கண வரலாறு:

- தமிழில் எழுந்த இலக்கண நூல்களின் வளர்ச்சியை அறிதல்
- தமிழிலக்கய நூல்களின் அமைப்பு முறை மாற்றத்தை அறிதல்
- தமிழிலக்கண நூல்களின் சிறப்பை உணர்தல்

இலக்கணம்- பொருள் யாப்பு,அணி:

- காலந்தோறும் வளர்ந்து வரும் செய்யுள் இலக்கணத்தை அறிதல்
- மாணவர்களுக்கு கவிதை இயற்றும் பயிற்சி அளித்தல்
- செய்யுளில் பயின்று வரும் அணியை அறிதல்
- அணிகள், கவிதை திறனாய்விற்கு உதவுமாற்றை விளக்குதல்
- மரபுக் கவிதைகளை படைக்கும் திறனைப் பெறல்
- அணியிலக்கணத்தின் சிறப்புகளை அறிதல்

சங்க இலக்கியம்:

- திணைக் கோட்பாடுகளை அறிதல்
- சங்க இலக்கிய அகப் புற பாடல்களின் அழகியல் அறிதல்

செம்மொழித் தமிழ்:

- தமிழ் மொழியின் செவ்வியல் தன்மைகளைக் கண்டுணர்தல்
- தமிழ் மொழி செம்மொழியான வரலாற்றை அறிதல்

இலக்கியத் திறனாய்வும் வரலாறும்:

- தமிழ் திறனாய்வு முறையினை விளக்குதல்
- மேலைத் திறனாய்வு முறையினை விளக்குதல்
- தமிழ்த் திறனாய்வு முறையியலை வரலாற்று நேதக்கில் அறிதல்

ஆர்டை வயுஆஐடு:

ஆய்வு நெறிமுறைகள்:

- ஆய்வேட்டின் அகப்புற அமைப்புமுறையை முழுமையாக அறியச் செய்தல்
- ஆய்வு நெறிமுறைகளைக் கற்பதன் மூலம் சிறந்த ஆய்வேட்டை உருவாக்கப் பயிற்சியளித்தல்

தமிழ்ச் சிந்தனை மரபு:

- இந்தியச் சிந்தனை மரபை மாணவர்களுக்கு அறிமுகம் செய்தல்
- தமிழ்ச் சிந்தனை மரபை ஆய்வுக் கண்ணோட்டத்துடன் மாணவர்கள் வேரோட்டமாக அறிந்து கெதள்ளச் செய்தல்
- தமிழ் இலக்கியங்களை அடிப்படைத் தரவுகளாகக் கொண்டு காலந்தோறும் தோன்றிய மாறிய தோன்றும் தமிழ்ச் சிந்தனை மரபுகளைப் பகுத்து அறியச் செய்தல்

இலக்கியத் திறனாய்வு அணுகுமுறைகள்:

- ஆய்வேட்டை உருவாக்கும்போது தலைப்பிற்குரிய அணுகுமுறைகளைப் பற்றிய அறிவைப் பெறுதல்
- வளர்ந்து வரும் புதிய அணுகுமுறைகளை அறிதல்

Name of the course	Relavance of the Course	Course outcomes	Year
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- அணுகுமுறைகளைப் பயன்படுத்தி இலக்கியங்களைச் சுவைத்தல்

PROGRAM SPECIFIC OUTCOMES

AND COURSE OUTCOMES for M.PHIL.,

2015 – 2016

<p>தமிழ்ச் சிந்தனை மரபு</p>	<p>அலகு -1 தேசிய அளவி அலகு -5 உலக அளவி அமைக்கப்பட்டுள்ளன.</p>	<p>1. இந்தியச் சிந்தனை மரபை மாணவர்களுக்கு அறிமுகம் செய்தல் 2. தமிழ்ச் சிந்தனை மரபை ஆய்வுக் கண்ணோட்டத்துடன் மாணவர்கள் வேரோட்டமாக அறிந்து கொள்ளச் செய்தல் 3. தமிழ் இலக்கியங்களை அடிப்படைத் தரவுகளாகக் கொண்டு காலந்தோறும் தோன்றிய மாறிய தோன்றும் தமிழ்ச் சிந்தனை மரபுகளைப் பகுத்து அறியச் செய்தல்</p>	<p>2015-16</p>
<p>இலக்கியத் திறனாய்வு அணுகுமுறைகள்</p>	<p>மாநில, உலக அளவி கட்டமைக்கப்பட்டுள்ளது.</p>	<p>1. ஆய்வேட்டை உருவாக்கும்போது தலைப்பிற்குரிய அணுகுமுறைகளைப் பற்றிய அறிவைப் பெறுதல் 2. வளர்ந்து வரும் புதிய அணுகுமுறைகளை அறிதல் 3. அணுகுமுறைகளைப் பயன்படுத்தி இலக்கியங்களைச் சுவைத்தல்</p>	<p>2015-16</p>

°சமுபசயஅந ழரவஉழஅநள:

1. தமிழ் இலக்கிய உலகில் சிறந்த ஆய்வுகளை படைப்பதற்கு இளநிலை ஆய்வானது அடிப்படையாக அமைகிறது.
2. உலகத் தத்துவ சிந்தனைகள் பற்றியும், திறனாய்வு முறைகள் பற்றியும் அறிய உதவுகிறது.
3. இலக்கண, இலக்கியங்களில் கோட்பாடுகளைப் பொருத்திப் பார்க்கும் அணுகுமுறைகள் பற்றி அறியலாம்.

**PROGRAM
SPECIFIC OUTCOMES
AND COURSE OUTCOMES for
M.A.
2015 – 2016**

Programe outcomes:

1. முதுகலைத் தமிழிலக்கியம் படிப்பதன் மூலம் தமிழ் இலக்கண, இலக்கிய அறிவினைப் பெற முடியும்.
2. நாவல், சிறுகதை, கவிதை போன்ற இலக்கிய வடிவங்கள் பற்றியும், படைப்பாளர்கள் பற்றியும் படைப்பு பற்றியும் அறிந்து கொள்ள முடியும்.
3. தமிழின் தோற்றம், தமிழின் பழமை, தமிழ் செம்மொழியான சிறப்பு போன்றவற்றை உணர்ந்து கொள்ள முடியும்.

4. நாட்டார் வழக்குகள், வட்டார வழக்குகள் போன்றவற்றையும் அறிய முடியும். பெண்ணியம், தலித்தியம், மார்க்சியம் போன்ற இயக்கங்கள் பற்றியும் அறிந்துக் கொள்ள முடியும்.
5. போட்டித் தேர்வுகள் எழுதுவதற்கு இப்படிப்பானது துணைபுரியும்.

Name of the course	Course outcomes
இக்கால இலக்கியம் -கவிதை நாடகம்	1. நவினத் தமிழ்க் கவிதைகளின் போக்குகளை அறிதல் 2. கவிதைகளில் உருவ உள்ளடக்க மாற்றங்களை அறிதல். 3. நாடக இலக்கியம் - காலந்தோறும் பெற்ற மாற்றங்களைக் காணல்
இக்கால இலக்கியம்- நாவலும் சிறுகதையும்	1. நாவல், சிறுகதை வடிவ உள்ளடக்கப் போக்குகளை அறிதல் 2. வடிவ, உள்ளடக்கப் போக்குகளை நாவல், சிறுகதைகளுள் பொருத்துதல் 3. சமூக, அரசியல் போக்குகள் படைப்பாளரிடம் ஏற்படுத்திய தாக்கத்தினை நாவல், சிறுகதைகளின்வழி இனங்காணல்.
காலந்தோறும் தமிழர் பண்பாடு	1. காலந்தோறும் தமிழர்களின் பண்பாட்டினையும், கலைகளையும் அறிதல். 2. அதன் வழியாக தமிழர்களின் கருத்தியல் சிந்தனைகளை அறியும்படி செய்தல் 3. களத்திற்கு அழைத்துச்சென்று அனுபவங்களைப் பெறுதல்
இலக்கியத் திறனாய்வு	1. தமிழ் திறனாய்வு முறையினை விளக்குதல். 2. மேலைத் திறனாய்வு முறையினை விளக்குதல். 3. தமிழ்த் திறனாய்வு முறையியலை வரலாற்று நேதக்கில் அறிதல்.
கணிணித் தமிழ்	
செம்மொழித் தமிழ்	1. தமிழ் மொழியின் செவ்வியல் தன்மைகளைக் கண்டுணர்தல் 2. தமிழ் மொழி செம்மொழியான வரலாற்றை அறிதல்
இலக்கியத் திறனாய்வு வரலாறு	1. தமிழ் திறனாய்வு முறையினை விளக்குதல் 2. மேலைத் திறனாய்வு முறையினை விளக்குதல் 3. தமிழ்த் திறனாய்வு முறையியலை வரலாற்று நேதக்கில் அறிதல்

PROGRAM SPECIFIC OUTCOMES

AND COURSE OUTCOMES for B.A.

2015 – 2016

Programme outcomes:

1. இளங்கலைத் தமழிலக்கியம் தமழின் அடிப்படை இலக்கணத்தைக் கற்றுத் தருகிறது.
2. தமழ் இலக்கிய வரலாறுகளையும், தமழின் தொன்மையையும் அறியச் செய்கிறது.
3. போட்டித் தேர்வுகளை எழுதுவதற்கான பயிற்சியைத் தருகிறது.
4. படைப்பாளர்களை அறியச் செய்து படைப்புகள் உருவாக்குவதற்கான பயிற்சியை அளிக்கிறது.

Name of the course	Course outcomes
நாட்டுப்புறவியல்	<ol style="list-style-type: none">1. நாட்டுப்புறவியல் அறிதல்.2. நாட்டுப்புறக் கலைகளை கற்க ஆர்வம் செய்தல்.3. நாட்டார் பார்வை புரிந்து கொள்ளுதல்.4. நாட்டார் பாடல் அறிதல்.5. பழமொழி, விடுகதைகளை அறிதல்.
மொழிபெயர்ப்புக் கலை	<ol style="list-style-type: none">1. மொழிபெயர்ப்பு பற்றிய விளக்கங்களை அறிந்து கொள்ளுதல்.2. மொழிபெயர்ப்பின் வகைகளை அறிந்து கொள்ளுதல்.3. தரமான படைப்புக்களை மொழிபெயர்க்கப் பயிற்சி அறித்தல்.4. பிறமொழி இலக்கிய அறிவை மேம்படுத்த உதவுதல்.5. மொழிபெயர்ப்பாளராக ஆர்வத்தைத் தூண்டுதல்.
சுற்றுலா	<ol style="list-style-type: none">1. சுற்றுலாவின் முக்கியத்துவத்தை உணர்தல்.

	<ol style="list-style-type: none"> 2. பல்வேறு சுற்றுலாத் தளங்களை அறிதல். சுற்றுலாத் துறையில் வேலை வாய்ப்பினைப் பெறுதல். 3. தமிழக ஓவியம் தொடர்பான சுற்றுலாத் தளங்களை அறிவித்தலும், அறிதலும். 4. தமிழக சிற்பங்கள் தொடர்பான சுற்றுலாத் தளங்களை அறிவித்தலும், அறிதலும் 5. பல்வேறு சுற்றுலா இடங்கள் கண்டு அனுபவம் பெற்று பயணக்கட்டுரை எழுதுதல். சுற்றுலா தோற்றம் வளர்ச்சி பற்றி அறிதல்.
மக்கள் தகவலியல்	<ol style="list-style-type: none"> 1. தகவல் தொடர்பியல் அறிமுகம் செய்தல் 2. தகவல் தொடர்பியல் சாதனங்களைக் கூறல். 3. நவீன ஊடகத்தின் தன்மைகளைக் கையாளக் கற்றுக் கொடுத்தல். 4. ஊடகங்களுக்கு எழுத கற்றுக் கொடுத்தல். 5. ஊடகத்தில் வேலை வாய்ப்பை உருவாக்குதல்.
மக்கள் தகவல் தொடர்பியல்	<ol style="list-style-type: none"> 1. மக்கள் தகவல் தொடர்பியல் வரலாற்றை அறிதல். 2. நவீன ஊடகப் பெருக்கத்தை அறிதல் 3. நவீன ஊடகத்துறையில் வேலை வாய்ப்பைப் பெறுதல் 4. ஊடகங்களுக்கு எழுதல். 5. நவீன ஊடகச் சாதனங்களைக் கையாளுதல்.
விளம்பர மொழி	<ol style="list-style-type: none"> 1. விளம்பரத்தின் அவசியத்தை வலியுறுத்துதல். 2. விளம்பரங்களின் பல்வேறு வடிவங்களை அறிதல். 3. விளம்பர சாதனங்கள் பற்றி அறிதல். 4. விளம்பரங்கள் உருவாக்கப் பயிற்சி அளித்தல்.
இக்கால இலக்கியம்-கவிதை, நாடகம்	<ol style="list-style-type: none"> 1. புதுக்கவிதை தோற்றம் வளர்ச்சியைக் கூறல். 2. புதுக்கவிதையின் பொதுவாக இலக்கிய தன்மையை உணர்த்துதல். 3. நாடகத்தின் தோற்றம் வளர்ச்சியை அறிதல். 4. ஒரு நாடகத்தைப் படித்து நாடகத் தன்மையைப் புரிதல். 5. படைப்பிலக்கிய தன்மையை மாணவர்கள் மூலம் உருவாக்குதல்.
இக்கால இலக்கியம்-நாவல், சிறுகதை, உரைநடை	<ol style="list-style-type: none"> 1. நாவல், சிறுகதை, உரைநடையினை மாணவர்களுக்கு அறிமுகம் செய்தல். 2. நாவல் பற்றிய பொதுத்தன்மைகளை அறிந்து கொள்ளல். 3. நாவல் பன்முக வெளியை உணர்த்துதல். 4. சிறுகதை தோற்றம் வளர்ச்சியை அறிதல். 5. வடிவம் வகைகளில் ஒன்றுடன் பொருத்தி விளக்குதல்.
இலக்கியத்	<ol style="list-style-type: none"> 1. இலக்கியத்தின் கூறுகளை மாணவர்கள் அறிதல். 2. திறனாய்வு பற்றிய பல்வேறு முறையினை அறிதல்.

திறனாய்வு,	3. திறனாய்வு முறையினை இலக்கிய வகைமைகளில் அடக்குதல்.
செம்மொழித் தமிழ்	1. தமிழ் மொழியின் தொன்மை, செம்மை, வளமை முதலானவற்றை அறிதல் 2. உலகச் செம்மொழிகளின் இயல்பை அறிதல். 3. தமிழ்ச் செம்மொழியான வரலாற்றை அறிதல். 4. செம்மொழி இலக்கியங்களின் இயல்பை அறிதல்.

PROGRAM SPECIFIC OUTCOMES

AND COURSE OUTCOMES for M.PHIL

2012 – 2013

Programe outcomes:

1. தமிழ் இலக்கிய உலகில் சிறந்த ஆய்வுகளை படைப்பதற்கு இளநிலை ஆய்வானது அடிப்படையாக அமைகிறது.
2. உலகத் தத்துவ சிந்தனைகள் பற்றியும், திறனாய்வு முறைகள் பற்றியும் அறிய உதவுகிறது.
3. இலக்கண, இலக்கியங்களில் கோட்பாடுகளைப் பொருத்திப் பார்க்கும் அணுகுமுறைகள் பற்றி அறியலாம்.

Name of the course	Relavance of the Course	Course outcomes
தமிழ்ச் சிந்தனை மரபு	அலகு -1 தேசிய அளவி அலகு -5 உலக அளவி அமைக்கப்பட்டுள்ளன.	1.இந்தியச் சிந்தனை மரபை மாணவர்களுக்கு அறிமுகம் செய்தல். 2.தமிழ்ச் சிந்தனை மரபை ஆய்வுக் 3.கண்ணோட்டத்துடன் மாணவர்கள் வேரோட்டமாக அறிந்து கெதள்ளச் செய்தல் 4.தமிழ் இலக்கியங்களை அடிப்படைத் தரவுகளாகக் கொண்டு காலந்தோறும் தோன்றிய மாறிய தோன்றும் தமிழ்ச் சிந்தனை மரபுகளைப் பகுத்து அறியச் செய்தல்
இலக்கியத் திறனாய்வு	மாநில, உலகஅள	1.ஆய்வேட்டை உருவாக்கும்போது தலைப்பிற்குரிய அணுகுமுறைகளைப்

அணுகுமுறைகள்	கட்டமைக்கப்பட்டுள்ளது.	பற்றிய அறிவைப் பெறுதல் 2.வளர்ந்து வரும் புதிய அணுகுமுறைகளை அறிதல் 3.அணுகுமுறைகளைப் பயன்படுத்தி இலக்கியங்களைச் சுவைத்தல்
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ROGRAM SPECIFIC OUTCOMES

AND COURSE OUTCOMES for M.A

2012 – 2013

Programe outcomes:

1. முதுகலைத் தமிழிலக்கியம் படிப்பதன் மூலம் தமிழ் இலக்கண, இலக்கிய அறிவினைப் பெற முடியும்.
2. நாவல், சிறுகதை, கவிதை போன்ற இலக்கிய வடிவங்கள் பற்றியும், படைப்பாளர்கள் பற்றியும் படைப்பு பற்றியும் அறிந்து கொள்ள முடியும்.
3. தமிழின் தோற்றம், தமிழின் பழமை, தமிழ் செம்மொழியான சிறப்பு போன்றவற்றை உணர்ந்து கொள்ள முடியும்.
4. நாட்டார் வழக்குகள், வட்டார வழக்குகள் போன்றவற்றையும் அறிய முடியும்.
5. பெண்ணியம், தலித்தியம், மார்க்சியம் போன்ற இயக்கங்கள் பற்றியும் அறிந்துக் கொள்ள முடியும். போட்டித் தேர்வுகள் எழுதுவதற்கு இப்படிப்பானது துணைபுரியும்.

Name of the course	Course outcomes
இக்கால இலக்கியம் -கவிதை நாடகம்	1.நவினத் தமிழ்க் கவிதைகளின் போக்குகளை அறிதல் 2.கவிதைகளில் உருவ உள்ளடக்க மாற்றங்களை அறிதல். 3.நாடக இலக்கியம் - காலந்தோறும் பெற்ற மாற்றங்களைக் காணல்
இக்கால இலக்கியம்- நாவலும் சிறுகதையும்	1.நாவல், சிறுகதை வடிவ உள்ளடக்கப் போக்குகளை அறிதல் 2.வடிவ, உள்ளடக்கப் போக்குகளை நாவல், சிறுகதைகளுள் பொருத்துதல் 3.சமூக, அரசியல் போக்குகள் படைப்பாளரிடம் ஏற்படுத்திய தாக்கத்தினை நாவல், சிறுகதைகளின்வழி இனங்காணல்.
காலந்தோறும் தமிழர் பண்பாடு	1.காலந்தோறும் தமிழர்களின் பண்பாட்டினையும், கலைகளையும் அறிதல். அதன் வழியாக தமிழர்களின் கருத்தியல் சிந்தனைகளை அறியும்படி செய்தல் 2.களத்திற்கு அழைத்துச்சென்று அனுபவங்களைப் பெறுதல்
இலக்கியத் திறனாய்வு	1. தமிழ் திறனாய்வு முறையினை விளக்குதல். 2. மேலைத் திறனாய்வு முறையினை விளக்குதல். 3. தமிழ்த் திறனாய்வு முறையியலை வரலாற்று நோக்கில் அறிதல்.
கணினித் தமிழ்	
செம்மொழித் தமிழ்	1. தமிழ் மொழியின் செவ்வியல் தன்மைகளைக் கண்டுணர்தல் 2. தமிழ் மொழி செம்மொழியான வரலாற்றை அறிதல்
இலக்கியத் திறனாய்வு வரலாறு	1. தமிழ் திறனாய்வு முறையினை விளக்குதல் 2. மேலைத் திறனாய்வு முறையினை விளக்குதல் 3. தமிழ்த் திறனாய்வு முறையியலை வரலாற்று நோக்கில் அறிதல்

PROGRAM SPECIFIC OUTCOMES

AND COURSE OUTCOMES for B.A

2012 – 2013

Programme outcomes:

1. இளங்கலைத் தமிழிலக்கியம் தமிழின் அடிப்படை இலக்கணத்தைக் கற்றுத் தருகிறது.
2. தமிழ் இலக்கிய வரலாறுகளையும், தமிழின் தொன்மையையும் அறியச் செய்கிறது.
3. போட்டித் தேர்வுகளை எழுதுவதற்கான பயிற்சியைத் தருகிறது.
4. படைப்பாளர்களை அறியச் செய்து படைப்புகள் உருவாக்குவதற்கான பயிற்சி அளிக்கிறது.

Name of the course	Course outcomes
நாட்டுப்புறவியல்	<ol style="list-style-type: none">1. நாட்டுப்புறவியல் அறிதல்.2. நாட்டுப்புறக் கலைகளை கற்க ஆர்வம் செய்தல்.3. நாட்டார் பார்வை புரிந்து கொள்ளுதல்.4. நாட்டார் பாடல் அறிதல்.5. பழமொழி, விடுகதைகளை அறிதல்.
மொழிபெயர்ப்புக் கலை	<ol style="list-style-type: none">1. மொழிபெயர்ப்பு பற்றிய விளக்கங்களை அறிந்து கொள்ளுதல்.2. மொழிபெயர்ப்பின் வகைகளை அறிந்து கொள்ளுதல்.3. தரமான படைப்புக்களை மொழிபெயர்க்கப் பயிற்சி அளித்தல்.4. பிறமொழி இலக்கிய அறிவை மேம்படுத்த உதவுதல்.5. மொழிபெயர்ப்பாளராக ஆர்வத்தைத் தூண்டுதல்.
சுற்றுலா	<ol style="list-style-type: none">1. சுற்றுலாவின் முக்கியத்துவத்தை உணர்தல்.2. பல்வேறு சுற்றுலாத் தளங்களை அறிதல். <p>சுற்றுலாத் துறையில் வேலை வாய்ப்பினைப் பெறுதல்.</p> <ol style="list-style-type: none">3. தமிழக ஓவியம் தொடர்பான சுற்றுலாத் தளங்களை அறிவித்தலும், அறிதலும்.4. தமிழக சிற்பங்கள் தொடர்பான சுற்றுலாத் தளங்களை அறிவித்தலும், அறிதலும்5. பல்வேறு சுற்றுலா இடங்கள் கண்டு அனுபவம் பெற்று பயணக்கட்டுரை எழுதுதல்.

	சுற்றுலா தோற்றம் வளர்ச்சி பற்றி அறிதல்.
மக்கள் தகவலியல்	1. தகவல் தொடர்பியல் அறிமுகம் செய்தல் தகவல் தொடர்பியல் சாதனங்களைக் கூறல். 2. நவீன ஊடகத்தின் தன்மைகளைக் கையாளக் கற்றுக் கொடுத்தல். 3. ஊடகங்களுக்கு எழுத கற்றுக் கொடுத்தல். 4. ஊடகத்தில் வேலை வாய்ப்பை உருவாக்குதல்.
மக்கள் தகவல் தொடர்பியல்	1. மக்கள் தகவல் தொடர்பியல் வரலாற்றை அறிதல். 2. நவீன ஊடகப் பெருக்கத்தை அறிதல் 3. நவீன ஊடகத்துறையில் வேலை வாய்ப்பைப் பெறுதல் 4. ஊடகங்களுக்கு எழுதல். 5. நவீன ஊடகச் சாதனங்களைக் கையாளுதல்.
விளம்பர மொழி	1. விளம்பரத்தின் அவசியத்தை வலியுறுத்துதல். 2. விளம்பரங்களின் பல்வேறு வடிவங்களை அறிதல். 3. விளம்பர சாதனங்கள் பற்றி அறிதல். 4. விளம்பரங்கள் உருவாக்கப் பயிற்சி அளித்தல்.
இக்கால இலக்கியம்- கவிதை, நாடகம்	1. புதுக்கவதை தோற்றம் வளர்ச்சியைக் கூறல். 2. புதுக்கவிதையின் பொதுவாக இலக்கிய தன்மையை உணர்த்துதல். 3. நாடகத்தின் தோற்றம் வளர்ச்சியை அறிதல். 4. ஒரு நாடகத்தைப் படித்து நாடகத் தன்மையைப் புரிதல். 5. படைப்பிலக்கிதன்மையை மாணவர்கள் மூலம் உருவாக்குதல்.
இக்கால இலக்கியம்- நாவல், சிறுகதை, உரைநடை	1. நாவல், சிறுகதை, உரைநடையினை மாணவர்களுக்கு அறிமுகம் செய்தல். 2. நாவல் பற்றிய பொதுத்தன்மைகளை அறிந்து கொள்ளல். 3. நாவல் பன்முக வெளியை உணர்த்துதல். 4. சிறுகதை தோற்றம் வளர்ச்சியை அறிதல். 5. வடிவம் வகைகளில் ஒன்றுடன் பொருத்தி விளக்குதல்.
இலக்கியத் திறனாய்வு,	1. இலக்கியத்தின் கூறுகளை மாணவர்கள் அறிதல். 2. திறனாய்வு பற்றிய பல்வேறு முறையினை அறிதல். 3. திறனாய்வு முறையினை இலக்கிய வகைமைகளில் அடக்குதல்.
செம்மொழித் தமிழ்	1. தமிழ் மொழியின் தொன்மை செம்மை வளமை முதலானவற்றை அறிதல் 2. உலகச் செம்மொழிகளின் இயல்பை அறிதல்.

	<p>3. தமிழ்ச் செம்மொழியான வரலாற்றை அறிதல். 4. செம்மொழி இலக்கியங்களின் இயல்பை அறிதல்.</p>
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Zoology
Program specific outcome

The B.Sc. Zoology programme should be able to:

- Classify, Identify and list out common animals (invertebrates, vertebrates)
- Gain knowledge about ecosystem and faunal diversity
- Learn about body plan and construction of prokaryotes and eukaryotes,
- Chemistry, Structure and function of cellular organelles, organ systems, metabolic pathways and physiology of animals
- Explain various physiological changes in our bodies
- Analyze the impact of environment on animals/human health
- Understand concept of genetics, genetic engineering and genetic disorders abnormalities
- Develop /concern for nature and create interest in environmental conservation programmes
- Identify and manage harmful and beneficial animals
- Understand the importance, application and scope of genetic engineering [cell culture, transgenic animals, antibiotics, engineered microbes, biodiesel, bio-plastics, Biopesticides]
- Learn to apply tools of information technology in Zoological research
- Know and develop skill on self employment avenue in zoological science such as Vermitechnology, Apiculture, Sericulture, Aquarium fish keeping and Ornamental Fish Farming
- Learn about common vectors and vector borne diseases, Personal hygiene, environmental sanitation and public health & hygiene .

The M.Sc. Zoology programme should be able to

1. Biochemistry of bio-molecules, metabolism and their functions.
2. Ultra structure and functions of various cellular organelles including cancerous cells and cell signalling.
3. Parametric and non-parametric statistics and their biological applications.
4. Ecosystem, bio-resources and their management. Role of GMOs in biodegradation of xenobiotic compounds, alternative/renewable energy resources.
5. Classical and modern genetics, genetic disorders, genetic counseling, tools and applications of genetic engineering and biotechnology.
6. Structure and functions of various organ systems and physiology of animals and man.
7. Gain knowledge about the concepts of ecosystem and to understand the impact of environment and their management strategies.
8. Understanding the fundamentals of the developmental process of various organisms.
9. Origin of life and evolution. Evolutionary processes, major trends of evolution and future of man.
10. Understanding principles, working mechanism and applications of microscopic, analytical, radio isotopic, histological, chromatography, electrophoresis, spectroscopic and immunological techniques.

11. Application of various tools of information technology biological sciences.

The M.Phil. Zoology programme should be able to

1. The course of study of the degree shall consist of (a) Part-I comprising three theory papers according to the Syllabus prescribed by the board of studies will help the students to know about recent development in zoology.
2. Scholars learns basic concepts of research, principle, structural components of the instrument, working method and applications of instruments, statistical tools, biotechniques and computer applications
3. Scholars learns sustainable aquaculture, fish genetics & breeding, nutrition & feed technology, fish immunology & pathology, analytical techniques & measurements
4. Learns insect pest and management decision, physical, mechanical, cultural and legislative control, chemical control, biological control agents, and recent advances in pest management.
5. Third paper is dissertation oriented paper(s) that enable students to gain skill development in the specific field. It promote original thinking, insemination of knowledge, modulation and innovation of thought, as an exercise, To transport the young minds to the expanding horizon of their chosen area of knowledge and transform them into knowledge generators, learn techniques related to the project, Analyzing data generated from the research, Learn scientific Writing skills.

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18UZO 11	Invertebrate	The students must be able to Describe common and distinctive features of invertebrate phyla. Narrate distinctive features of taxonomic classes within the phyla covered. Understand phylogenetic relationships between the phyla covered, 4) Understand general invertebrate body structure and organization with adaptations and functions and 5) Appreciate the ecological and economic importance of invertebrates
18UNM11	Human vectors	the students are expected to 1) know the importance of invertebrate vectors in human health, 2) learn how animals including pets transmit various diseases to man, 3) learn the general life cycle of mosquitoes and other insects vectors and 4) learn the preventive and control Measures of the vectors.
18UZO 12	Invertebrate practical	Know about the distribution of various invertebrates in Tirunelveli District . Understood various organs and systems of selected vertebrates

18 UNE 21	Ornamental fish farming	the students will be able to gain knowledge about 1) aquarium preparation and maintenance, 2) ornamental fishes and their identification, 3) breeding behavior of ornamental fishes, 4) feed and feeding behavior of fish and 5) the ornamental fish disease and control strategies
18UZO 21	Chordates	the students will be able to 1) know about the salient features of living prochordates and their evolutionary perspectives, 2) know the classification, and various systems of fishes, 3) know the classification, various systems and parental care of amphibians and reptiles, 4) know the salient characteristics, various systems and the mechanism of flight of aves and 5) know the characters, classification and specific systems of mammals
18UZO 22	Chordates practical	Know about the distribution of various vertebrates in Tirunelveli District Understood various organs and systems of selected vertebrates
18USB22	Vermi-biotechnology	the students will be able to gain basic knowledge about 1) the types of earthworms, biology and collection methods, 2) the earthworm culture methods and vermicomposting materials, 3) small scale and vermicomposting techniques and 4) methods of vermiwash preparation and economics of vermicompost

M.Phil. Zoology 2012-2015

Programme code	Programme	Course outcome
12MAZ 11	Research Methodology	Students understand the basic principles, structural components, working methods of microscope, centrifuge, chromatography, spectroscopy Learned how to analyze the biological data using appropriate statistical tools. Learned how to write a thesis and research proposal.
12MAZ 12	Advanced techniques in biotechnology	Students understand the basic principles, structural components, working methods of PCR, Electrophoreses, X-ray crystallography Learned how to use FISH, Biochips, Nanotechnology in the field of zoology Learned how to culture animal cell lines
12MAZ21	Aquaculture Biotechnology	Students understand the concept of aquaculture Learned how to construct a pond for fish culture Learned how to prepare a artificial feed for rearing fishes Learned fish breeding and fish disease management techniques

Program specific outcome

The B.Sc. Zoology programme should be able to:

- Classify, Identify and list out common animals (invertebrates, vertebrates)
- Gain knowledge about ecosystem and faunal diversity
- Learn about body plan and construction of prokaryotes and eukaryotes,
- Chemistry, Structure and function of cellular organelles, organ systems, metabolic pathways and physiology of animals
- Explain various physiological changes in our bodies
- Analyze the impact of environment on animals/human health
- Understand concept of genetics, genetic engineering and genetic disorders abnormalities
- Develop /concern for nature and create interest in environmental conservation programmes
- Identify and manage harmful and beneficial animals
- Understand the importance, application and scope of genetic engineering [cell culture, transgenic animals, antibiotics, engineered microbes, biodiesel, bio-plastics, Biopesticides]
- Learn to apply tools of information technology in Zoological research
- Know and develop skill on self employment avenue in zoological science such as Vermitechnology, Apiculture, Sericulture, Aquarium fish keeping and Ornamental Fish Farming
- Learn about common vectors and vector borne diseases, Personal hygiene, environmental sanitation and public health & hygiene .

The M.Sc. Zoology programme should be able to

12. Biochemistry of bio-molecules, metabolism and their functions.
13. Ultra structure and functions of various cellular organelles including cancerous cells and cell signalling.
14. Parametric and non-parametric statistics and their biological applications.
15. Ecosystem, bio-resources and their management. Role of GMOs in biodegradation of xenobiotic compounds, alternative/renewable energy resources.
16. Classical and modern genetics, genetic disorders, genetic counseling, tools and applications of genetic engineering and biotechnology.
17. Structure and functions of various organ systems and physiology of animals and man.
18. Gain knowledge about the concepts of ecosystem and to understand the impact of environment and their management strategies.

19. Understanding the fundamentals of the developmental process of various organisms.
20. Origin of life and evolution. Evolutionary processes, major trends of evolution and future of man.
21. Understanding principles, working mechanism and applications of microscopic, analytical, radio isotopic, histological, chromatography, electrophoresis, spectroscopic and immunological techniques.
11. Application of various tools of information technology biological sciences.

The M.Phil. Zoology programme should be able to

1. The course of study of the degree shall consist of (a) Part-I comprising three theory papers according to the Syllabus prescribed by the board of studies will help the students to know about recent development in zoology.
2. Scholars learns basic concepts of research, principle, structural components of the instrument, working method and applications of instruments, statistical tools, biotechniques and computer applications
3. Scholars learns sustainable aquaculture, fish genetics & breeding, nutrition & feed technology, fish immunology & pathology, analytical techniques & measurements
4. Learns insect pest and management decision, physical, mechanical, cultural and legislative control, chemical control, biological control agents, and recent advances in pest management.
5. Third paper is dissertation oriented paper(s) that enable students to gain skill development in the specific field. It promote original thinking, insemination of knowledge, modulation and innovation of thought, as an exercise, To transport the young minds to the expanding horizon of their chosen area of knowledge and transform them into knowledge generators, learn techniques related to the project, Analyzing data generated from the research, Learn scientific Writing skills

BSc Zoology 2015-2016

15UZO 11	Animal Biodiversity - I	1.To create awareness and importance of coral reef and their Ecosystem. 2.Students understand the biology and economic importance of locally available Coral reefs (Gulf of Manner, Balk Bay).
15UNM11	Economic Zoology	Students learn about the importance of natural resources for income generation and to create a self employment venture for the upliftment of the downtrodden.
15UNM11	Human Health and Nutrition	1. Students gain knowledge about human health and nutrition for leading a healthy life.
15UZO 12	Animal Biodiversity – I practical	Know about the distribution of various invertebrates in Tirunelveli District Understood various organs and systems of selected invertebrates
15UZO 21	Animal Biodiversity - II	1. Students understand the basic classification, concepts of biodiversity and a descriptive

		account of the phyla under vertebrates.
		1. Students understand the basic classification, concepts of biodiversity with special reference to India.
		1. Students understand the basic classification, concepts of biodiversity with special reference to world(Hot spots).
15 USB 21	Basic Biotechnology	Undergraduate Students of Physics, Chemistry and Math's are expected to learn the principle and application of biotechnology.
15UZO22	Animal Diversity-II Practical	Know about the distribution of various vertebrates in Tirunelveli District Understood various organs and systems of selected vertebrates
15 USB22	Animal husbandary	Graduates learned about the importance of animal husbandry for income generation and to create self employment venture. Students are expected to gain basic knowledge on animal farming technology.
15 USB22	Vermibiotechnology	Gained knowledge on the recent trends in vermitechnology, vermi-composting and economic importance of earthworms. The students gained basic knowledge and hands on experience on vermiculture.
15UZOA31	Animal Structure and Function	Understand the basic classification, concepts of biodiversity and structural and functional organization Students will learn to identify animals, make them aware of human systems.
15UZPA31	Animal Structure and Function	Learned structural organization of cockroach Understand about different systems, blood constituent of human beings
15UZO 31	Cell and Molecular Biology	The students are expected to know about the structural organization and functional aspects of cell organelles, basic understanding about the cell division, nucleic acids, their repairing mechanism, regulation and expression
15UZP32	Cell and Molecular Biology Practical	Observed the cell division, blood constituents Determined the various peptides of biological samples Observe the structure of various cell organelles through window cuttings
15 USB 32	Sericulture	Students will know about the sericulture/silk industry and will provide an opportunity to expose them to a cottage industry as well as an employment opportunity.
15USB32	Apiculture	Students will know about the Apiculture and will provide an opportunity to expose them to a cottage industry as well as an employment opportunity
15UZO41	Biostatistics and Computer Application	Students learn and familiarize how to collect, categories, present and analyze the data with various statistical and computer tools. Familiarize with computer applications and work with the basic computer software.
15UZOE 41	Fishery Biology	1. Students will acquire knowledge about fishery resources, commercial value of fishes, fish

		processing technologies and marketing and will help them to pursue related research avenues and job opportunities
15UZOE 41	Aquaculture	1. The programme provides overall idea about various kinds of fishes and their rearing practices 2. Preparing of fish feed 3. students learned about various kinds of fish diseases and their management
15 USB 41	Wild life and Nature Watch	Students are expected to gain knowledge on forest ecosystem.
15UZOA 41	Immunology and Animal biotechnology	Understood the fundamental aspects of the immune system, antigen antibody reaction as well as techniques involved in animal cell culture and gene manipulation. Students will learn the principles and applications of immunology and biotechnology
15UZO42	Biostatistics and Computer Application Practical	Familiarize with computer applications and work with the basic computer software. Understand the basic biostatistical methods to solve the problems in science
15UZOA 42	Immunology and Animal biotechnology practical	Understand the cellular constituents, antigen and antibody interaction of blood Learned various immunological and cell culture techniques
15UZO51	Biochemistry (Inter Disciplinary)	Learned basic knowledge on the biochemical aspects of animals. The students acquired knowledge about the biomolecules
15UZOE51	Introduction to Bioinformatics	Inculcated practical skill on bioinformatics as well as to propagate various tools for studying proteomes and genomes as well as protein structure prediction. To make the students aware of the recent developments in information technology and the application tools and software in the field of biology.
15UZOE51	Genomics	Gained knowledge on structural and functional aspects of proteomes, DNA protein interaction, genomics and its application. Students aware of the recent developments in genomic science and the application technologies and software
15UZO52	Developmental Biology	Understand the development and functioning of various organs as well as to know about the concepts, trends and patterns of animal development. Students understand the fundamentals of animal development and their evolutionary significance
15UZO53	Genetics and Animal Biotechnology	Students are expected to gain knowledge about the principle of genetics and applications of biotechnology

15UZO54	Ecology and Evolutionary Biology	Understand the life and environment as interdependent entities and also understand the concepts, trends and patterns of evolution as well as evolution of selected groups. Students are expected to gain knowledge on ecosystem, patterns of evolution and speciation.
15UZO55	Biochemistry practical	Qualify the carbohydrates, proteins, fats and enzymes of biological samples Analyze and determine the quality of the water Type of peptides of biological samples
15UZO56	Developmental Biology practical	Learn developmental pattern of chick, frog, mosquitoes, drosophila Animal abnormalities and their causes
15UZO57	Genetics and Animal Biotechnology practical	Understand baic genetic principles using color beads, human height and weight, coins Learned how to isolate bioactive principles from biological materials
15UZO58	Ecology and Evolutionary Biology practical	How abiotic factors influences animals and affects water quality Learned water quality testing parameters Gained knowledge about evolutionary important organism
15UZO 61	Animal Physiology	Studied the physiological functions of animals as well as to understand the nature, mechanism and uses of various receptors present in the animals. The students are expected to understand the structure and functions of human systems.
15UZO62	Immunology and Microbiology	Strengthened the knowledge on immune system, immune response, microbial diseases as well as to impart knowledge on microbiological applications. The students learned the fundamentals of immune system, mechanism of defense, microbial classification, disease symptoms, treatment and vaccination.
15UZO63	Insect Diversity and Pest Management	study the elements of insect diversity and structure; as well as understand about the insect pest of locally cultivatable crops and their management
15UZO64	Animal Physiology & Immunology and Microbiology practical	Learned cellular constituents of blood Understand the Acclimatization principles of animals (fishes) Understand various pathogenic microbes and their impacts Culture methods of bacteria Staining of microbes
15UZO 65	Insect Diversity and Pest Management practical	1. The students are expected to gain knowledge about the locally available Insects. 2. Students understand the present status of Economically important Pest and their management.
15UZO E 61	Project	Learn local fauna

		Import skill to collect and evaluate the biopotential of plants Skills to culture of fishes, insects and microbes
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Program specific outcome

The B.Sc. Zoology programme should be able to:

- Classify, Identify and list out common animals (invertebrates, vertebrates)
- Gain knowledge about ecosystem and faunal diversity
- Learn about body plan and construction of prokaryotes and eukaryotes,
- Chemistry, Structure and function of cellular organelles, organ systems, metabolic pathways and physiology of animals
- Explain various physiological changes in our bodies
- Analyze the impact of environment on animals/human health
- Understand concept of genetics, genetic engineering and genetic disorders abnormalities
- Develop /concern for nature and create interest in environmental conservation programmes
- Identify and manage harmful and beneficial animals
- Understand the importance, application and scope of genetic engineering [cell culture, transgenic animals, antibiotics, engineered microbes, biodiesel, bio-plastics, Biopesticides]
- Learn to apply tools of information technology in Zoological research
- Know and develop skill on self employment avenue in zoological science such as Vermitechnology, Apiculture, Sericulture, Aquarium fish keeping and Ornamental Fish Farming
- Learn about common vectors and vector borne diseases, Personal hygiene, environmental sanitation and public health & hygiene .

The M.Sc. Zoology programme should be able to

22. Biochemistry of bio-molecules, metabolism and their functions.
23. Ultra structure and functions of various cellular organelles including cancerous cells and cell signalling.
24. Parametric and non-parametric statistics and their biological applications.
25. Ecosystem, bio-resources and their management. Role of GMOs in biodegradation of xenobiotic compounds, alternative/renewable energy resources.

26. Classical and modern genetics, genetic disorders, genetic counseling, tools and applications of genetic engineering and biotechnology.
27. Structure and functions of various organ systems and physiology of animals and man.
28. Gain knowledge about the concepts of ecosystem and to understand the impact of environment and their management strategies.
29. Understanding the fundamentals of the developmental process of various organisms.
30. Origin of life and evolution. Evolutionary processes, major trends of evolution and future of man.
31. Understanding principles, working mechanism and applications of microscopic, analytical, radio isotopic, histological, chromatography, electrophoresis, spectroscopic and immunological techniques.
11. Application of various tools of information technology biological sciences.

The M.Phil. Zoology programme should be able to

6. The course of study of the degree shall consist of (a) Part-I comprising three theory papers according to the Syllabus prescribed by the board of studies will help the students to know about recent development in zoology.
7. Scholars learns basic concepts of research, principle, structural components of the instrument, working method and applications of instruments, statistical tools, biotechniques and computer applications
8. Scholars learns sustainable aquaculture, fish genetics & breeding, nutrition & feed technology, fish immunology & pathology, analytical techniques & measurements
9. Learns insect pest and management decision, physical, mechanical, cultural and legislative control, chemical control, biological control agents, and recent advances in pest management.
10. Third paper is dissertation oriented paper(s) that enable students to gain skill development in the specific field. It promote original thinking, insemination of knowledge, modulation and innovation of thought, as an exercise, To transport the young minds to the expanding horizon of their chosen area of knowledge and transform them into knowledge generators, learn techniques related to the project, Analyzing data generated from the research, Learn scientific Writing skills.

BSc Zoology 2012-2013

Programme code	Programme	Course outcome
12UZO11	Animal biodiversity-I	1. Students understand the basic classification, concepts of biodiversity and organization of the related invertebrates 2. Students understand the biology and economic importance of locally, regionally, nationally,

		globally available invertebrates 3.Know about the distribution of various invertebrates in Tirunelveli District 4.Understood various organs and systems of selected invertebrates
12 UNM 11	Economic Zoology	Students make aware of the graduates about the importance of natural resources for income generation and to create a self employment venture for the upliftment of the downtrodden.
12 UNM 11	Human Health And Nutrition	Students aware about human health, communicable and non-communicable diseases and their management
		Students learn about the Nutrition, human health and diseases and their management.
12UZ021	Animal biodiversity-II	Students understand the basic classification, concepts of biodiversity and a descriptive account of the phyla under vertebrates. Know about the distribution of various vertebrates in Tirunelveli District Understood various organs and systems of selected vertebrates
12 UNM21	Freshwater Fish Culture	1. The programme provides overall idea about various kinds of fishes and their rearing practices 2. Preparing of fish feed 3. students learned about various kinds of fish diseases and their management
12 UNM 21	Sericulture	Students aware about the economic importance of silkworm for income generation and to create a self employment venture
12 USB 22	Wildlife And Nature Watch	1.Students understand the present status of wildlife biology, conservation inputs and also to know about the animal behavior in its own environment
12UZOA31	Animal Structure and Function	Understand the basic classification, concepts of biodiversity and structural and functional organization Students will learn to identify animals, make them aware of human systems.
12UZPA31	Animal Structure and Function	Know about the distribution of various invertebrates and vertebrates in Tirunelveli District Understood various organs and systems of selected vertebrates
12USB32	Vermi-biotechnology	The students are expected to gain knowledge about the locally available earthworm species.
12USB32	Concepts of Genomics	Understand the functional and computational aspects of genomes and proteomes and also to procure knowledge on cloning and Human Genome Project
12UZ0 41	Introduction to computer	Familiarize with computer applications and work with the basic computer software.
12UZ0 E41	Biostatistics	Understand the basic biostatistical methods to solve the problems in science.

12UZO E41	Endocrinology	Students have a sound knowledge on the types, structure and functions of endocrine glands.
12USB41	Introduction to pharmacology	Study the basic concepts of pharmacology as well as to understand the role of drugs acting on organs and systems
12USB41	Ecology and Environmental Biotechnology	Understand the life and environment as interdependent entities and also to find out solutions for the problems in environment through biotechnology
12UZOA41	Immunology and Animal Biotechnology	Understood the fundamental aspects of the immune system, antigen antibody reaction as well as techniques involved in animal cell culture and gene manipulation. Students will learn the principles and applications of immunology and biotechnology
12UZOA42	Immunology and Animal Biotechnology-Practical	Understand the cellular constituents, antigen and antibody interaction of blood Learned various immunological and cell culture techniques
12UZO 51	Cell and Molecular biology	study the structural and functional aspects of cell organelles as well as mechanism of gene regulation and expression
12UZOE51	Introduction to Bioinformatics	Understand bioinformatics as well as to propagate various tools for studying proteomes and genomes as well as protein structure prediction
12UZOE51	Evolutionary biology	Understand the concepts, trends and patterns of evolution as well as evolution of selected groups
12UZO 52	Animal Physiology	Study the physiological functions of animals as well as to understand the nature, mechanism and uses of various receptors present in the animals
12UZO 53	Genetics and Animal Biotechnology	Understand the fundamental aspects of applied genetics and population studies as well as to make aware of various tools of genetic engineering and animal biotechnology
12UZO 54	Insect diversity and pest management	study the elements of insect diversity and structure; as well as understand about the insect pest of locally cultivatable crops and their management
12UZO55	Practical	Learned various stages of mitosis and meiosis and giant chromosome Learned cellular constituents of blood Understand the Acclimatization principles of animals (fishes) Learned basic principles (Monohybrid and dihybrid) of genetics Understand various organs of insects Learned the distribution of different kinds of pests
12UZO 61	Developmental biology	understand the development and functioning of various organs as well as to know about the concepts, trends and patterns of animal development
12UZO 62	Immunology and Microbiology	Strengthen the knowledge on immune system, immune response, microbial diseases as well as to impart knowledge on microbiological applications

12UZO 63	Aquaculture Biotechnology	Introduce and to familiarize the basic aspects of culture, feeding, breeding techniques and disease management of fin and shell fishes.
12UZO64	Practical	Learned different embryological, aquaculture and microbiological techniques and preservation of gametes Preparation of media and culture of microbes, pathogenic microbes Learned how to find out the blood groups
12UZO E61	Project	Learn local fauna Import skill to collect and evaluate the bio-potential of plants Skills to culture of fishes, insects and microbes

M.Sc. Zoology (2012-2013)

Programme code	Programme	Course outcome
12PZO11	Biochemistry	Students understand the structure, and properties of essential nutrients like carbohydrates, protein, lipid, nucleic acid and to find out the metabolic pathways of various nutrient types and to know about the biochemical aspects of vitamins and hormones.
12PZO12	Cell and molecular Biology	Students gain a profound knowledge structure and functions of cell organelles and to clarify the characteristics of nucleic acids, cancer and cell signaling conditions
12PGZO13	Biostatistics and Computer Application	Students understand about various tools of biostatistics for data analysis as well as to make the students know about application of computer and statistical software
12 PAZ 14	Practical	Extracts and estimate macromolecules of biological samples Students observed cell divisions, chromosomes How to biological data using MS-Excell and SPSS.
12PZOE11	Environmental biotechnology	Students learn the basic ethics of environmental management and to understand the biotechnological aspects of waste water treatment and management strategies. Students get a thorough knowledge on biodegradable pollutants, GEM and their products.
12PZOE11	Proteomics And Genomics	Imparted knowledge on structural and functional aspects of proteomes, DNA protein interaction, genomics and its application
12 PAZ 21	Genetics	understand the basic principles of population and microbial genetics as well as to learn the gene concept , regulation and expression

12 PAZ 22	Developmental biology	understand about the process of developmental in frog and chick and to know about the role of genes in development of Drosophila
12 PAZ 23	Immunology & Microbiology	Gained knowledge on the immune system, hyper sensitivity and immunity as well as to know about the isolation, identification and the growth of bacteria, fungi and virus, and diseases and also their application in microbiology
12 PAZ 24	Practical	Learned Genetic concepts using beads, human blood groups, Observe various stages of chick and frog Isolate and identify microbes and characterize the same
12 PAZ E21	Bioinformatics	understand about the sequential alignment, substitution pattern, sequence analysis and structural predictions of protein
12PZOE21	Environmental toxicology	1.Students acquire knowledge on fossil evidences 2. Students know about natural selection and speciation
12PZO31	Animal Physiology	understand the structure, mechanism and the physiological functions of different organ systems
12PZO32	Evolutionary Biology	Understand the concepts, trends and patterns of evolution as well as evolution of selected groups
12PZO33	Genetic Engineering And Animal Biotechnology	Understand the cloning technology, screening and application of genetic engineering as well as to make aware of various tools related to cell & embryo culture, embryo transfer and their application
12 PAZ 34	Practical	Understands how animals cope up with its immediate surrounding Analysis of protein using appropriate techniques Learned the interaction between antigen and antibodies
12 PAZ E31	Techniques In Biology	Learn principles and working mechanism of various tools related to microscopy, radioisotopes, chromatography, electrophoresis, spectrophotometry and histology
12 PAZ E31	Human Endocrinology	Students acquired a sound knowledge on the types, structure and functions of Human endocrine system
12PZO41	Aquaculture Biotechnology	Students will acquire knowledge about aquaculture practices of cultivable species, rearing techniques, fish breeding and diseases management. This will help them to pursue higher studies, research and job opportunities
12 PAZ 42	Insect Pest Management	Students should learn collect, record, assesses locally available crops pests and their status, and take decision of which type of pest management practice could be undertaken to which type of pests.
12 PAZ 43	Practical's	Understand how to prepare a pond to culture a fish Water quality parameter analyses

		<p>Aquaculture related weeds, live fish feed, fish diseases and their causative agents</p> <p>Understand distribution and diversity of insect pests of various ecosystems</p> <p>Culture of economically important insects</p> <p>Utilization of insects for various utilization</p> <p>Biopesticides preparation and utilization</p>
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M.Phil. Zoology (2012-2013)

Programme code	Programme	Course outcome
12MAZ 11	Research Methodology	<p>Students understand the basic principles, structural components, working methods of microscope, centrifuge, chromatography, spectroscopy</p> <p>Learned how to analyze the biological data using appropriate statistical tools.</p> <p>Learned how to write a thesis and research proposal.</p>
12MAZ 12	Advanced techniques in biotechnology	<p>Students understand the basic principles, structural components, working methods of PCR, Electrophoreses, X-ray crystallography</p> <p>Learned how to use FISH, Biochips, Nanotechnology in the field of zoology</p> <p>Learned how to culture animal cell lines</p>
12MAZ21	Aquaculture Biotechnology	<p>Students understand the concept of aquaculture</p> <p>Learned how to construct a pond for fish culture</p> <p>Learned how to prepare a artificial feed for rearing fishes</p> <p>Learned fish breeding and fish disease management techniques</p>