**Programme Outcome**

**2.6.1**

**1. Interdisciplinary Knowledge, Skills and Attitude**

Graduates should be able to acquire interdisciplinary and cross disciplinary knowledge base, skills and attitudes as a consequence of the learning they engage with their programme of study. These qualities should equip students to live and work in a rapidly changing and complex world. Students are encouraged to make use of ICT to be competitive in the globalised world.

**2. Equity, Sustainability, Diversity and Inclusiveness**

Graduates should acquire the spirit of equity, sustainability, diversity and inclusiveness during their course of study. They should acquire all the ethical values to enable them to act as dignified citizens

**3. Societal Interaction/Community Service**

Graduates should have the ability to disseminate knowledge and actively engage with the world through community service. N.C.C., N.S.S, Women Club, etc, give students ample opportunities for social interaction.

**4. Net Working and Collaboration**

Graduates should acquire skills to be able to collaborate and net work with educational institutions, research organizations and industrial units in India and abroad.

**5. Lifelong Learning**

Graduates should be lifelong learners for the pursuit of knowledge for either personal or professional reasons. This should enhance social inclusion, active citizenship, personal development, self-sustainability as well as competitiveness and employability.

**English Common course**

**Programme Outcome**

The programme is designed in such a way that it introduces the students to the basics of grammar, usage and communication and familiarises them with the different genres of literature. The course is intended to sensitise students to different ways in which literature serves as a platform for forming, consolidating, critiquing and reworking the issue of identity at various levels. It also acquaints the young learners with different forms of inspiring and motivating literature.

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| Subject Outcome/specific Outcome..........................................Sem.1.Course-1, Fine- tune Your English(B.A./B.Sc./ B.Com.)Course-2, Pearls from the Deep(B.A/B.Sc. Model-1.)----------------------------------Sem2. Course-3- Issues that Matter. B.A./B.Sc./B.Com.Course-4, Savouring the Classics.(B.A./B.Sc.Model-1).----------------------------------Sem-3. Course-5- Literature and/as Identity.(B.A./B.Sc.)Sem-4. Course 6. Illuminations.(B.A./B.Sc.)......................................... Sem-3. Course-7.Gems of Imagination. (B.Com. model-1.) Sem-4.Course -8. Revisiting the Classics.(B.Com.-model-1.) | Learning Outcome............................................Intended to introduce to the basics of grammar, usage and effective communication1. Confidently use English in both written and spoken forms2.Use English for formal communication effectively.1. Appreciate and enjoy works of literature.2.Appreciate the aesthetic and Structural elements of literature.----------------------------------Sensitise young minds to contemporary issues of concern1.Identify the major issues of current significance.2.Respond rationally and positively to the issue raised.Introduces them to Classic Literary Works which defied the test of time.1. Become familiar with the Classics from various lands.2.Understand the features that went into the making of Classics.-----------------------------------1. Sensitises students to various ways in which literature serves as platform for forming, consolidating and re-working the issue of identity at different levels.2. Familiarise s them with indigenous and diasporic identity within literature.3. Gives a general idea about the relationship between literature and identity.Acquaints the learners with different forms of inspiring and motivating literature.1. Maintains a positive attitude to life.2. Evaluate and overcome setbacks based on the insights that the text provides.3. Explore the profundity of life and the potential human in making.4. Offers a quintessential journey into the unfathomable power of literatures: individually and collectively............................................1. Appreciate the aesthetic and cultural milieu in which literature resides.2.Distinguish between literary appreciation and literary critique.3. Discuss the ways in which different genres affect reading. Become familiar with Classics from various lands.2. Understand the features that constitute a Classic. | Cross critical Outcome...................................1.Develops their analytical skill2. Enrich their vocabulary.3. Enables them to communicate freely thereby boosting their confidence.1.Helps to write reviews of works of art.2. Broadens their perception.3. Inculcates an eclectic spirit in them.-----------------------------1.Creates a more circumspect and informed vision of the world.2.Connects theoretical learning in classrooms to current developments in the world.3.Enables them to present their ideas with confidence during group discussions.4. Prepares them to write imaginatively and precisely based on the reading of the text.1. Feel the resonant sparks of unenforced reading.2.Come in contact with some of the greatest minds in the world.3. Inspires young minds to soar high into the world of imagination.----------------------------1. Become reflective about their own identities and identities of others.2. Adopt different critical strategies to study literature in future.1.Urges the readers to assess life from alternative point of view.2. Enables the students to savour the beauty of literature and develops a desire to relish life critically and creatively....................................1. The reader metamorphoses into a writer.1. Come in contact with some of the greatest minds in the world.2.Improves their language and vocabulary.3. The private world unfurls into universal. |

**Programme Outcome – Hindi**

To provide the students in- depth knowledge of Hindi Language and literature and also to motivate the students to acquire proficiency in the National Language and official Language.

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| Subject Outcome | Learning Outcome |
| **Prose and one Act Plays:**Module IEssays from Prose TextModule IIOne Act PlayModule IIIEssays from Prose TextModule IVOne Act Play | Students can aware about the environmental concerns.Can create awareness regarding culture and social responsibility.Can develop their aesthetic senseCan inculcate the values of Human Rights |
| **Short stories and Novel:**Module IShort storiesModule IINovelModule IIIShort storiesModule IVNovel | To make them the gender issuesTo impart a spirit of the humanenessCan improve the literary sociability of students |
| **Poetry Grammar and Translation:**Module IPoetryModule IIGrammarModule IIIPoetry | Enable students to learn Hindi Poem.Equip students to become competent in correspondenceFamiliarize the students with practical use of grammar can develop socio-Economic awareness. |

**B.Com Degree Programme Model-I**

**Programme Outcome**

This program could provide well trained professionals for the Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, Warehousing etc., to meet the well trained manpower requirements. The graduates will get hands on experience in various aspects acquiring skills for Marketing Manager, Selling Manager, Over all Administration abilities of the Company.

The students should possess the knowledge, skills and attitudes during the end of the B.com degree course. By virtue of the training they can become an Manager, Accountant , Management Accountant, cost Accountant, Bank Manager, Auditor, Company Secretary, Teacher, Professor, Stock Agents, Government jobs etc.,

* Students will be able to demonstrate progressive learning of various tax issues and tax forms related to individuals. Students will be able to demonstrate knowledge in setting up a computerized set of accounting books
* Students will demonstrate progressive affective domain development of values, the role of accounting in society and business.
* Students will learn relevant financial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.
* Students will learn relevant managerial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.
* Leaners will gain thorough systematic and subject skills within various disciplines of commerce, business, accounting, economics, finance, auditing and marketing.
* Learners will be able to recognise features and roles of businessmen, entrepreneur, managers, consultant, which will help learners to possess knowledge and other soft
* skills and to react aptly when confronted with critical decision making.
* Learners will be able to prove proficiency with the ability to engage in competitive exams like CA, CS, ICWA and other courses.
* Leaner’s will acquire the skills like effective communication, decision making, problem solving in day to day business affaires
* Learners will involve in various co-curricular activities to demonstrate relevancy of foundational and theoretical knowledge of their academic major and to gain practical exposure.
* Learners can also acquire practical skills to work as tax consultant, audit assistant and other financial supporting services.
* Learners will be able to do higher education and advance research in the field of commerce and finance.
* Ability to analyse and solve business problems using statistical techniques
* Skill in practical applicability of banking transactions
* Ability to develop e-commerce business and websites
* Skills in inculcating electronic transactions in conducting a business activity
* Commitment to society as in the role of skilled entrepreneurs, with efficiency in accounting
* and management
* Proficiency in the administration and management of an organisation
* Skills in effective business communication and management
* Efficiency in accounting business transactions and preparing financial statements
* Confidence in undertaking business activities
* Knowledge in statistical tools and techniques, insurance principles and policies
* Knowledge in undertaking capital market operations
* Identify the nature and importance of advertising, marketing and logistics management
* and its practical implementation
* Knowledge in Income Tax Act and ability to prepare Income Tax Returns and assessment
* Ability to ascertain cost of products
* Ability to ascertain profit on contract works.
* Skill in preparing cost sheet
* Skill in making rational decisions
* Knowledge in audit of business units
* Proficiency in Contract Act and Sale of Goods Act.

**Course Outcome**

**Semester I**

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| **COURSE** | **Course Outcome** |
| **Dimensions and Methodology of Business Studies** | Understand business theory and other related knowledge |
|  Use the existing knowledge of business theory and other related knowledge to solve problems and make decisions |
|  Be creative and innovative within a business context |
| critically analyse a business situation |
| **Financial Accounting I**  | Familiarize the students with the accounting principles and practices of various types |
| of business other than companies. |
|  Equip the students with skills for recording various kinds of business transactions |
|  Familiarize the students with the techniques of preparing financial statements |
| **Corporate Regulations and Administration**  | To familiarise the students with the management and administration of joint stock companies in India as per Companies act 2013. |
| To understand the corporate legal factors which affect the business decisions of a company |
| How to register a company under new act  |
| Modes of acquring membership |
| Understanding the different grounds and procedures of winding up of companies |
|  **Banking and Insurance** | Provide a basic awareness on banking. |
|  Impart clear knowledge on banking transactions. |
|  Familiarize the students with the innovative products of banks. |
| Create awareness among the students about the nature of insurance and the principles |
| that governs insurance. |
|  Awareness about life insurance policy and its types |
| Familiarize Policy conditions and clauses of fire insurance |

**Semester II**

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| **COURSE** | **Course Outcome** |
| ***Financial Accounting II*** | Ability to interpret accounting data |
| Improve problem solving and decision making capacity |
| Understand the overviwe of Accounting standrads in India |
| Understand the accounting treatment of branches |
| Recognize and understand the differences in accounting treatment of branchs and department |
| Understand the concept of partnership.Recognize the Modes of dissolution and accounting tratment. |
| ***Business Regulatory Framework*** | To know Contract and Essentials of a valid contract.  |
| To understand contract of bailment and rights and duties of pawner and pawnee. This course enable the student to understand Rights and duties of surety,discharge of suretyship |
| Rights and duties of agent and principal |
| Contract of Sale Goods conditions and Warranties . |
| On successful completion of this course, the student should be well-versed in basic provisions regarding legal frame work governing the business world. |
| ***Business Management*** | To familiarise the students with concepts and principles of management. |
| Becomes responsible for managing activities |
| Maintaining good working conditions |
| Cooperating with other departments |
| Finds to mimimise wastage of resources. |
| Motivates and guides people to perfom. |
| ***Principles of Business Decisions***  | Students will be able to comprehend each and every aspect of cost, production, pricing etc. |
| Learn decision making environment and analysis of alternatives for decisions. |
| Familiarizes the students with the production analysis and laws of production. |
| Develops an adequate knowledge of cost and cost-output relationship. |
| Will be able to understand how pricing is done in different market forms. |

**Semester III**

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| **COURSE** | **Course Outcome** |
| **Corporate Accounts I** | To make the students familiarise with corporate accounting procedures and to understand the accounting for banking companies. |
| To help the students to understand the techniques of corporate accounting procedure.  |
| To make the students to prepare final accounts of Joint Stock Companies as per the provision of Companies Act.  |
| To make awareness on investment accounts and insurance claim. |
| **Quantitative Techniques for Business I** | To equip the students with the preparation statistical survey and data collection.. |
| Students can get the data analytical skills and improved arithmetic proficiency. |
| Ability to prepare data forecasts for various years and check trend in behaviour. |
| Understand the classification and tabulation of data. |
| Practical knowledge about data analytical ttols. |
| **Financial Markets and Operations** | The course is intended to familiarise the students with financial market operations in India |
| Students will be able to comprehend each and every updates in the financial system with its impacts. |
| Learn the vocabulary and language of finance |
| Develops an adequate working knowledge of DEMAT Accounts, depository system, NSDL & CDSL. |
| Will be able to understand how options, derivative and commodity markets operate. |
|  **Marketing Management** | Identify the role of marketing in business |
| Ability to apply knowlede and skills to real world experience |
| Recognize the ethical issues in markeing |
| Identify how marketing creates value for the customer, company and society & Ability to identify why consumer is the corner stone of marketing |
| Ability to collect, process and aalyze consumer data to make informed marketing decisions |
| **Goods and Services Tax** | To give the students a general understanding of the GST law in the country and provide an insight into practical aspects of GST and equip them to become tax practitioners.  |
|  Understand various concepts of goods&services tax |
| Gain an insight on the recording and analyzing the transactions for compliance under GST. |
| Getting familiar with the technology and the flow of return filing under GST. |

**Semester IV**

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| **COURSE** | **Course Outcome** |
| **Corporate Accounts II**  | To equip the students with the preparation of financial statements of insurance companies  |
| To understand the accounting procedure for reconstruction and liquidation of companies. |
| To help the students to understand the techniques of corporate accounting procedure. |
| To enhance the students to prepare financial accounts of Insurance Companies and Banking Companies as per the provisions in the Act. |
| To enable them to understand the accounting procedures and treatments regarding Internal Reconstruction, External Reconstruction and Liquidation of Companies |
| **Quantitative Techniques for Business- II**  | Provides an exposure to more advanced tools of data analysis. |
| Ability to apply probabilistic model in risk regarding investment decisions. |
| Practical application of budgeting and index numbers in planning. |
| **Entrepreneurship Development and Project Management** | Have the ability to discern distinct entrepreneural traits |
| knowledge about the parameters to assess opportunities and constraits for new business |
| Idea regarding the importance of entrepreneurship as a tool for development |
| Understand the systamatic process to select and screen business idea |
| Ability to understand our own entrepreneurial talents, Helps to improve Decision making capacity, team spirit and problem solving skills |
| **Financial Services** | To provide the students with an overall idea of financial services available in the country.  |
| To create an understanding about recent trends in financial services sector. |
| Familiarity with major domestic and global financial institutions and the role of those institutions in the global economy and financial markets. |
| Prepare students who wish to practice personal financial planning. |
| Think critically and creatively to identify better solutions within business constraints. |

**Semester V**

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| **COURSE** | **Course Outcome** |
| **Cost Accounting I** | To enable the students acquire an understanding of the concept and meaning of cost, the classification of cost and various statements of cost and profit |
| To enable the students to assess and understand   cost incurred in manufacture of a product or service. |
| To develop in students towards cost consciousness and prepare them for careers in the areas of costing |
| To develop skills in various methods of costing and cost control techniques |
| **Environment Management and Human Rights**  | To impart basic knowledge on ecosystems and their functioning, to develop the real sense of Human rights - its concepts and manifestations |
| Develop a sense of awareness among the students about the environment and its various problems and to help the students in realizing the interrelationship between man and the environment and helps to protect the nature and natural resources |
| Help students understand how their decisions and actions affect the environment, build knowledge and skills necessary to address complex environmental issues, as well as ways to take action that can keep our environment healthy and sustainable for the future. It encourages character building, and develop positive attitudes and values. |
| **Financial Management**  | To help the students to understand the objectives of financial management. |
|  To give an insight regarding cost of capital and capital structure. |
|  To equip the students to plan capital budgeting. |
| It equips students with the awareness and skills to evaluate investment alternatives on the basis of time value of money. |
| This gives an idea of computing investment alternatives using discounting and compounding techniques. |
| **Income Tax- I** | To familiarize the students with the Income Tax & Income Tax Act 1961.  |
| To enable the students to compute the taxable income under the heads of Income from salary, House property, Profits & gains of Business or profession . |
| To realise the scope of total income based on total income |
| Knows about the various allowances, perks,  |
| Realise the benefits of self occupied and let out house property. |
| **Open Course : Fundamentals of Accounting** | To familiarise the students with the basic accounting principles and practices in business. |
| To enable the students to understand the principles and concepts of Accountancy and prepare accounts of business firms. |
| Demonstrate the knowledge and role of financial accounting in the business |
| Prepare Trading accounts, profit and loss account and balance sheet of a firm. |

**Semester VI**

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| **COURSE** | **Course Outcome** |
| **Cost Accounting - 2**  | Generates capability in Budgeting |
| Generates capability in handling normal and abnormal loss |
| To enable the student to apply marginal costing techinique |
| Decision making in production process is simplified |
| In contract works profit can be calculated |
| Describe P/V Ratio, BEP and Margin of Safety & Break Even Charts |
| **Advertisement and Sales Management**  | To make the students aware of the strategy, concept and methods of advertising and sales promotion. |
| Identify the methods of selecting advertisement media. |
| Understand the methods of measuring the effectiveness of advertisement. |
| Identify the social, economic and legal aspects of advertisement. |
| Understand the methods of evaluating sales force. |
| **Auditing and Assurance**  | To familiarize the students with the principles and procedure of auditing.  |
| To enable the students to understand the duties and responsibilities of auditors and to undertake the work of auditing. |
| Understand the qualities required for an auditor |
| Have the skills to write an audit report |
| Evaluate the nature, purpose and scope of an audit and the legal, regulatory and ethical framework for auditing. |
| **Management Accounting** | To acquaint the students with management accounting techniques for the analysis and interpretation of financial statements  |
| To study the basic framework of financial interpretation of financial statements and to study the basic framework of financial reporting. |
| Understand how to use financial statement analysis to evaluate financial strengths and progress. |
| Analyze a firm’s financial activities using financial statement analysis tools. |
| **Income Tax- II** | To familiarize the students with the determination of Total Taxable Income and tax payable |
| To get an overview regarding returns to be filed by an individual and also assessment procedure |
| help to identify LTCG & STCG. |
| Understand how the total Income is computed after the deduction under section 80C to 80U. |
| Identify how to file an Income Tax return, return through TRP PAN |

**M Com (Finance) Programme**

**Programme Specific outcome**

This program could provide well trained professionals for the Industries, Banking Sectors, Insurance Companies, Financing companies, Logistics, distribution channel management, Application of Information technology in Business, Alternative investment management technique etc., to meet the well trained manpower requirements. The graduates will get hands on experience in various aspects acquiring skills for Marketing Manager, Sales Manager, Bank manager, Cost accountant, Academicians, Project management, Research Analysts, and Over all Administration abilities of the Company.

The students should possess the knowledge, skills and attitudes
during the end of the M.com degree course. By virtue of the training and curriculum, they can become an Managers, Accountants , Cost Accountants, Bank Managers, Auditors, Company Secretaries, Teachers, Professors, Stock Agents, Government jobs etc.,

* Proficiency in new skills expected for future accountants in this changing business environment.
* Proficiency in general analysis of current tax system.
* Ability to think logically and critically and to make well reasoned decisions using advanced problem solving skills.
* Understand the cultural, legal, social and environmental factors that affect, and are affected by business operations.
* Ability to demonstrate leadership while working constructively, cooperatively and respectfully with each other.
* Use research based ideas and insights to address complex business and professional problems.

**Semester I**

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| **COURSE** | **Course Outcome** |
| **ADVANCED FINANCIAL ACCOUNTING-1** | To know the methods of valuation of goodwill and share |
| To acquaint with the amalgamation and reconstruction procedures of companies |
| To learn the proceedings of insolvency of an individual and international reporting standards. |
| Develop the ability to use a base accounting system to create the data needed to solve a variety of business problems. |
| Determine goodwill and and prepare a consolidated balance sheet at the date of acquisition for business combinations |
| **PRINCIPLES OF MANAGEMENT AND ORGANISATIONAL BEHAVIOUR** | To help the students to understand the conceptual frame work of management and organizational behaviour |
|  |
| To understand the managerial applicability of the concepts. |
| ***FINANCIAL MANAGEMENT PRINCIPLES*** | To help the students to understand the objectives of financial management. |
|  To give an insight regarding cost of capital and capital structure. |
| To equip the students to plan capital budgeting. |
| It equips students with the awareness and skills to evaluate investment alternatives on the basis of time value of money. |
|
| Idea regarding optimum utilisation of financial resources can be learnt. |
| This gives an idea of computing investment alternatives using discounting and compounding techniques. |
|
| ***RESEARCH METHODOLOGY*** |  To help the students to understand how to do research in the area of commerce and management. |
|  To give an insight regarding socio science research process |
| To equip the students to undertake sample surveys and prepare research articles. |
| It will equips students with the awareness and skills to conduct scholarly research at an advanced level |
| plan, design and conduct a scholarly research project. |
| **QUANTITATIVE TECHNIQUE** | To understand statistical tools for quantitative analysis |
|  To understand the statistical tools for research and business decision making |
|  Understand basic concepts of quantitative techniques. |
|  Apply probability theory and sampling techniques in business research Apply probability distributions in business decision making |
| Formulate appropriate sampling design and employ parametric tests for validating statistical inferences. |
| Apply non-parametric tests for validating statistical inferences |

**Semester II**

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| **Course** | **Course Outcome** |
| **ADVANCED FINANCIAL ACCOUNTING-(AF02C06 )** | To understand the proceedings of the preparation of consolidated balance sheet |
| To get an idea about Green accounting, Double accounts, Farm accounts, voyage |
|  Recalls the terms, facts, and concepts of underwriting. |
|  Develops interest in Green accounting. |
|  Analyses the situation where computation of reasonable return and clear profit is required. |
| **STRATEGIC MANAGEMENT (SM02C09 )** | To understand the frame work across strategic analysis, strategy formulation, and strategic implementation |
| This course intends to give a thorough knowledge regarding decision making process of top management |
| Enhances learning and critical thinking ability of the students |
| Develop the skills to assist parties in designing helpful strategies to resolve conflicts. |
| Students will be able to recognize social responsibility issues, ethical dilemmas, and alternative solutions of business organizations. |
| **FINANCIAL MANAGEMENT STRATEGIES (FM02C08)** | To acquaint students with the idea of advanced concepts in financial management . |
| To develop the idea of planning financial strategies. |
| Enhances financial planning and managerial skills. |
| Develop the skills to assist parties in designing inventory valuation and management. |
| Students will be able to acquaint cash planning skills. |
| **HUMAN RESOURCE MANAGEMENT(HR02C07)** |  Familiarize the students with the human resource management processes. |
|  Sensitize them to the training process and techniques. |
|  Provide appropriate knowledge and skills required for selecting, developing and managing human resources. |
|  Create awareness regarding the different motivational techniques. |
|  Identify the different styles of leadership. |
| **OPERATIONS RESEARCH** | To enable the students to understand various techniques used in operations research. |
| Develop a general understanding of the Operational Research (OR) approach to decision making. |
| Formulate mathematical models to solve business problems. |
| Solve transportation and assignment problems. |
| Formulate appropriate strategy using decision making methods under uncertainty. |
| Use CPM and PERT techniques to plan, schedule and control project activities |

**Semester III**

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| **Course** | **Course Outcome** |
| **MANAGEMENT ACCOUNTING** | To understand accounting methods and techniques used for decision making. |
| To provide students to understand the concepts of management accounting and how it differs from financial accounting and cost accounting. |
|
| Enable students to critically analyse the financial statements and provide recommendations to improve the operations of organisations through the application of management accounting techniques. |
| To enhance them to understand the effect of price level changes on the financial statement. |
|  **DIRECT TAXES – LAW AND PRACTICE** | To gain knowledge regarding the Income Tax Act and the basic deductions and exemptions available |
| Impart basic knowledge and equip them with application of principles and provisions of Income - tax Act, 1961 |
| To give the students the basic idea about the theoretical aspects of income tax in India, and to give an idea about the computation of income under different heads |
| Understands the behaviour clubbing of incomes in various cases. |
| Understand the deductions and exemptions of income under the Income Tax Act. |
| Knowledge about assessment procedures |
| **INTERNATIONAL BUSINESS** | To understand different aspects of international business. |
| Studying international business will provide the students with insights in to the global economic and business climates. |
| Allows them to understand how globalisation has brought about an increasing connectedness of business,markets,people and information across countries. |
| **CORPORATE GOVERNANCE (CG03C14)** | To understand the importance of corporate governance |
| Reflect on and critically examine their own values and the importance of the ethical dimension in business and workplace decision making |
| Confidently apply systematic ethical reasoning to business dilemmas and communicate effectively in oral and written forms these- using the concepts- logic and conventions of business ethics |
| Understand and able to Compare the corporate governance mechanisms of a few countries |
| **BUSINESS ENVIRONMENT (BE03C15)** |  To understand the impact of environment in business |
|  To understand the external environment forces which influences the business decision |
| Analyze the environment of a business from the legal & regulatory, macroeconomic, cultural, political, technological and natural perspectives. |
| Explain the socio – cultural environment that effect the business. |
| Exhibit an understanding of the role of International/National bodies in business environment |
| Analyze the economic environment and its configurations that support trade & business |

**Semester IV**

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| **Course** | **Course Outcome** |
| **ADVANCED COST ACCOUNTING** | To learn about the higher application of cost accounting techniques and methods. |
|  To know the application of cost control techniques. |
| To provide the students with an in-depth knowledge of advanced approaches of Cost Accounting.  |
| To enable them to apply costing methods and techniques to assist management for taking appropriate decisions. |
| To understand the role of standard costing within organisations and prepare and interpret standard costs and variance statements |
| **DIRECT TAXES – ASSESSMENT & PROCEDURE** | To make the students familiar with the assessment and procedures of direct taxes in the country |
| To give the students an idea about the computation of total income and to know the relevant provisions relating to assessment. |
| Understand the computation of tax of Firms, AOP/BOI, Companies. |
| Identify how to file an Income Tax return, return through TRP. |
| To get an idea on the various authorities working for the purpose of Income Tax Act and also the functions performed by them. |
| Understand the relationship between tax planning and tax management. |
| **INTERNATIONAL FINANCE (IF04E01)** | To give a detailed idea about macro environment on which financial transactions are carried out. |
| To give a comprehensive knowledge about ways and means of raising of finance by MNCs’. |
| To give knowledge about International finance and methods of international investments |
| To make the students aware of about International monetary system, multinational financial management and Parity conditions in international finance |
| **FINANCIAL MARKETS & DERIVATIVES(FM04E02)** | To make the students familiar with the financial system of the country in general and |
| capital market operations in particular. |
| To provide the students advanced knowledge in derivative instruments like forwards, |
| futures, options and swaps. |
| To develop analytical skills in students in pricing derivative instruments |
| To give good understanding of commodity trading |
| **SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT** | To give a detailed idea about techniques of Security analysis. |
| Knowledge about the risk involved while dealing In the market |
| Different analysis to be done before selecting an investment portfolio |
| An overview on the different theories existing in the capital market. |
| Learn how to deal with decision making under risk. The role of risk in financial decisions. |

B.Sc Physics Model I

**Programme Outcome**:

The programme aims to develop the following abilities:

1. Read, understand and interpret physical information – verbal, mathematical and graphical.
2. Impart skills required to gather information from resources and use them.
3. To give need based education in physics of the highest quality at the undergraduate level.
4. Offer courses to the choice of the students.
5. Perform experiments and interpret the result of observation, including making assessment of experimental uncertainties.
6. Provide an intellectually stimulating environment to develop skills and enthusiasms of students to the best of their potential
7. Use Information Communication Technology to gather knowledge at will.
8. Attract outstanding students from all backgrounds.

**Programme Specific Outcome**

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| Subject Outcome (SO) | Learning Outcome (LO) | Cross critical Outcome (CCO) |
| **SEMESTER I**Core Course 1 – METHODOLOGY AND PERSPECTIVES OF PHYSICS Module 1- Concepts and Development in Physics Module II- Number System, Vector analysis Module III- Experimental methods and error analysis | Develops interest in learning Physics.Acquires mathematical base in learning physics.Familiarisation of various measuring devices and possible errors.  | Inculcates a scientific spirit. |
| **SEMESTER II**Core Course II – MECHANICS AND PROPERTIES OF MATTER Module I –Wave motion , Oscillations Module II –Rotational Mechanics Module III- Elasticity, Hydrodynamics | Acquires the knowledge about periodic motion , translational and rotational motionThe knowledge of elasticity helps the students to identify materials suited for constructionsStudy of hydrodynamics helps the students in their daily life | Develops engineering and practical skills |
| **SEMESTER III**Core Course III – OPTICS, LASER AND FIBRE OPTICS Module I –Interference Module II –Diffraction, Polarization Module III- Laser , Fiber Optics | Familiarization of various optical phenomena with concrete theoretical backgrounds.Acquires knowledge of data transmission  | Creates an enthusiasm in various applications in Fiber optics |
| **SEMESTER IV**Core Course IV – SEMICONDUCTOR PHYSICS Module I –Semiconducting diodes and applications Module II –Transistors Configurations and Feedback Amplifiers and Oscillators Module III- FET, Operational amplifier & Modulation | Acquires the basic principles and applications of electronicsFamiliarizes with the electronic components and various circuits  | Enables to design , construct and repairs different electronic devices |
| **SEMESTER V**Core Course V – ELECTRICITY AND ELECTRODYNAMICS Module I –Alternating Current and Network Theorems Module II –Transient Current and Thermo electricity Module III- Electrostatics and Magnetostatics Module IV- Maxwell’s Equations and Electromagnetic  wave propagation | Distinguishes current and static electricity Understands the production and transmission of acRole of inductors and capacitors in electric circuits Gains basic concepts about e m theory | Enables to manage the power consumption and simple domestic electrical maintenance  |
| **SEMESTER V**Core Course VI – CLASSICAL AND QUANTUM MECHANICS Module I – Lagrangian and Hamiltonian Formulations of  Classical Mechanics Module II –Historical development and Origin of  Quantum theory Module III- Schrodinger equation and its Applications | Understands the two era in Physics- classical and quantum Understands how quantum mechanics explains various natural phenomena  | Develops skill s in mathematics |
| **SEMESTER V**Core Course VII – DIGITAL ELECTRONICS AND PROGRAMMING Module I –Boolean Algebra and Logic Gates Module II –Combinational Logic & Sequential Logic Module III- Programming in C++ | Develops the knowledge in electronics in mathematical computations | Enables to develop programmes in C++ |
| **SEMESTER V**Core Course VIII – ENVIRONMENTAL PHYSICS AND HUMAN RIGHTS Module I –Multidisciplinary nature of environmental  studies, Natural resources and Ecosystems  Module II –Biodiversity and its conservation,  Environmental Pollution and Social Issues  and the Environment Module III- Non-renewable and Renewable Energy  Sources Module IV – Solar Energy Module V – Human Rights, Human Rights and United  Nations, Human Rights in India and  Environment and Human Rights | Creates concern on energy conservation and environmental protectionAwareness of Rights and Responsibilities of a citizen | Enables to minimize the usage of non-conventional sources of energyCreates a better citizen |
| **SEMESTER V**Open Course – PHYSICS IN DAILY LIFE Module I –Units and Dimensions and Light Module II –Motion and Electricity Module III- Matter and Energy and Universe | Acquires basic awareness in elementary physics | Develops creative thinking |
| **SEMESTER VI**Core Course IX – THERMAL AND STATISTICAL PHYSICS Module I –Equation of State for gases, Zeroth law of  Thermodynamics, First law of Thermodynamics  And Heat engines and second law of  Thermodynamics Module II –Entropy, Thermodynamic relations, Conduction and Radiation Module III- Statistical Mechanics and Statistical  Distributions | To develop the basic concepts of thermodynamics, the working knowledge of different enginesEnumerate classical and quantum statistics | Knowledge to expose various applications in material science |
| **SEMESTER VI**Core Course X – RELATIVITY AND SPECTROSCOPY Module I –Special Theory of Relativity Module II –Atomic Spectroscopy Module III- Molecular Spectroscopy NMR and ESR  Spectroscopy | Acquaint the learners the concept that nothing in absolute and everything is relative Understands the principles of different spectroscopy | Urges an inquisitive spirit for higher studies |
| **SEMESTER VI**Core Course XI – NUCLEAR, PARTICLE PHYSICS & ASTROPHYSICS Module I –Nuclear structure, Nuclear radiation detectors, Counters and Particle accelerators Module II –Nuclear transformations, Cosmic rays Module III- Particle Physics, Astrophysics | Recognize the very basic concept with which the entire Universe is made of | Understands the pros and cons of nuclear reactions  |
| **SEMESTER VI**Core Course XII – SOLID STATE PHYSICS Module I –Crystal Structure Module II –Bonding in Solids, Free electron theory and  Elementary Band theory, Semiconducting  Properties of Materials Module III- Dielectric properties of materials, Magnetic properties of materials, Superconductivity | Learns about crystal structuresIn depth study in material scienceGains basic ideas in nanotechnology | Promotes research in material physics |
| **SEMESTER VI**Choice Based Course XIII – INFORMATION TECHNOLOGY Module I –Computer Networks and Internet Module II –HTML Module III- Basic Ideas of DBMS | Familiarise young minds about the fascinating world of IT and to use the tools available in internet and the WWW for a profound study of the subject related to physics in a better way | Helps to develop and design webpage |

**B.Sc Zoology**

**Programme: B. Sc Zoology Programme (Vocational)**

**Programme Specific Outcome**

India, a mega biodiversity nation stands out as a fascinating destination, exhibiting an incredible diversity in its fauna and flora. Innumerable species of organisms live here contributing to India’s most beautiful natural topography. All round development becomes possible only by exploring the vast potential of the still unknown resources of nature. Zoology undergraduate students are therefore made to go through the realms of Biota, anatomy, physiology, Biotechnology, Immunology, Bioinformatics, Environmental Sciences, Evolution, Ethology etc. so as to inculcate the spirit of Biophilia in them as well as to involve the students in self employment programs like ornamental fish culture, Apiculture, Vermiculture etc.

The B.Sc. Zoology programme is designed to help the students to:

1. Acquire basic knowledge of various disciplines of Zoology and General Biology meant both for a graduate terminal course and for higher studies.

2. Inculcate interest in nature and love of nature.

3. Understand the rich diversity of organisms and their ecological and evolutionary significance

4. Imbibe basic skills in the observation and study of nature, biological techniques, experimental skills and scientific investigation

5. Create awareness on the internal harmony of different body systems and the need for maintaining good health through appropriate lifestyle.

6. Acquire basic knowledge and skills in certain applied branches for self employment

7. Impart awareness of the conservation of the biosphere.

**Course Outcome**

**Semester I**

|  |  |
| --- | --- |
| Course | Course Outcome |
| **General perspectives in Science & Protistan Diversity**  | * Students develop inquisitiveness about biological diversity.
 |
| * Students develop the ability of logical analysis
 |
| * Students become aware about the growth of Biology and the different phases of Biology.
 |
| * Students develop commitment to work for the conservation of nature.
 |
| * Students internalize a true love for other living beings and develop a staunch belief in the equality of life.
 |
| **Code: BO1CMVOT01 PLANT DIVERSITY AND PLANT PATHOLOGY** | * Acquire fundamental knowledge in plant science and to make the student to understand that Botany is an integral part of the human life and developments.
 |
| * Foster and encourage an attitude of curiosity, appreciation and enquiry of various life forms of plants.
 |
| * Understand the diversity of plants with respect to Algae, Fungi, Lichens, Bryophytes, Pteridophytes and Gymnosperms.
 |
| * Students got familiarize with the lower forms of plants and become able to identify them both morphologically and anatomically
 |
| **PRINCIPLES AND METHODS IN AQUACULTURE** | * Analyse the advantages of aquaculture farming systems
 |
| * Evaluate and analyse the relative benefits of different aquaculture cum animal husbandry practices
 |
| * Analyse the different water and soil quality parameters and assess the suitability of a site for pond culture
 |
| * Suggest remedial measures for obtaining optimum conditions for pond fish culture.
 |
| * Analysing suitable techniques for getting a pond ready for culture.
 |
| * Comparative analysis and identification of suitable aquaculture species for suitable environments and culture systems
 |
| * Analyse the suitability of brackishwater bodies for coastal aquaculture
 |
|  **Hatchery and Culture Techniques** | * Analyse the variations in hatchery systems and suggest methods for improvement.
 |
| * Critical analysis of different culture methods
 |
| * Critical analysis of different culture methods of prawns and crabs.
 |
| * Critical analysis of the different culture methods of bivalves.
 |
| * Presentation of different culture methods for live feeds, aquarium fishes, holothurians and seaweeds.
 |

**Semester II**

|  |  |
| --- | --- |
| **Course** | **Course Outcome** |
| **Capture Fishery** | * Students become adept in the art of drawing charts.
 |
| * Students develop the skill of sketching and drawing as they learn about type specimens.
 |
| * Students become adept in the art of drawing charts.
 |
| * Students learn the art of describing organisms with illustrations
 |
| * Students learn the art of describing organisms with illustrations thereby inculcating a spirit of Biophilia
 |
| **Capture Fishery** | * Analyse the marine resource potential of India.
 |
| * Critical analysis of different fish catching devices.
 |
| * Presentation on inland fish resources
 |
| * Presentation on marine fishery resources of India
 |
| * Analyse the sustainability of a fishery and evaluate the different management measures.
 |
| **Biology of fishes** | * Analyse the morphological features of a species for its identification
 |
| * Analyse the morphometric characters to ascertain the species
 |
| * Present the important features of the anatomy of a finfish
 |
| * Present the intricacies of the physiological processes in a fish in relation to its environment.
 |
| * Analyse the gut alimentary canal and gut contents of a fish to estimate its feeding habits.
 |
| * Analyse the spawning habits of fishes from ova diameter studies
 |
| * Analyse age and growth from study of hard parts
 |
| * Estimate fecundity by sampling and counting of ripe eggs.
 |
|  **BO2CMVOT02 PLANT PHYSIOLOGY** | * Make the students realize the importance of all physiological processes which take place in plants.
 |
| * Understand the mechanism of various physiological processes related to plant life.
 |
| * Create an enthusiasm in students to study , how various physiological processes become important in living organisms
 |

**Semester III**

|  |  |
| --- | --- |
| **Course** | **Course Outcome** |
|  **Animal Diversity - Chordata** | * To make the student observe the diversity in chordates and their systematic position.
 |
| * Students are able to understand the evolutionary importance of selected chordate groups.
 |
| * To make them aware of the economic importance of some classes.
 |
| **Fisheries Environment** | * Analyse the role of food chains in habitat ecology
 |
| * Analyse the effect of the law of limiting factors on ecology
 |
| * Analyse the interaction of meteorological features with the weather and climate
 |
| * Analyse the effects of physical, chemical and biological parameters of the environment on primary and secondary production
 |
| * Analysisng the influence of biogeochemical cycles on ecology of aquatic systems
 |
| * Analyse major causes of aquatic pollution and recommend measures for its mitigation.
 |
| * Analyse ecological factors used in remote sensing data and estimation of fish abundance
 |
|  **Fish Nutrition** | * Analyse the influence of different digestive enzymes
 |
| * Analyse the role of different nutrients in energy yielding and body building.
 |
| * Analyse the means by which the retained energy value can be increased for aquaculture purposes.
 |
| * Analyse the influence of different external and internal factors on the digestibility in fishes.
 |
| * Analyse the suitability and relative importance of different feed ingredients in fish nutrition.
 |
| * Analyse the comparative influence of different factors affecting energy requirement on its growth and production.
 |
| * Analyse the different economic factors influemcing feed production to increase their profitability.
 |
|  **BO3CMVOT03 ANGIOSPERM TAXONOMY AND ECONOMIC BOTANY** | * Acquaint the student with the objectives and components of Taxonomy.
 |
| * Help the student to understand the systems of classification of angiosperms.
 |
| * Help the student to identify the common angiosperm species of Kerala.
 |
| * Familiarize the student with plants of immense economic importance.
 |
| * Develops skills for identifying angiosperm members.
 |
| * Students will get an idea about medicinally and economically important common plants around them, their uses, parts used and the products obtained from them.
 |

**Semester IV**

|  |  |
| --- | --- |
| **Course** | **Course Outcome** |
| **SO4: Research Methodology, Biophysics and Biostatistics** | * The students become aware about the basic concept of scientific method in research process. Students develop the skill in scientific documentation. Students become equipped in basic techniques of animal rearing collection and preservation.
 |
| * Students are able to apply statistical methods in biological studies.
 |
| **Reproductive Physiology and Endocrinology** | * Present the process of Spermatogenesis and Oogenesis in teleosts
 |
| * Analyse the suitability of sex reversal in aquaculture.
 |
| * Analyse the influence of different hormones on sexual maturation in fishes.
 |
| * Analyse the factors influencing the reproductive axis in fishes.
 |
| * Analyse the influence of different hormones on sexual maturation in crustaceans
 |
| * Analyse the effects intervening in the reproductive cycle of fishes through the manipulation of hormones.
 |
| * Analyse the effect of morphogenetic movements in the development of larvae
 |
| **Microbiology, Pathology and Post Harvest Technology.** | * Analyse the effect of different sterilization techniques.
 |
| * Analyse the extent of fish spoilage through fish spoilage indices.
 |
| * Analyse the suitability of different processing and preservation techniques for seafood.
 |
| * Analyse the importance of value addition and apply it to fish products.
 |
| * Analyse the various critical control points in fish handling and processing.
 |
|  **BO4CMVOT04 ANATOMY AND APPLIED BOTANY** | * Understand different types of plant tissues.
 |
| * Understand the internal structure of different plant organs with reference to their functions.
 |
| * Understand the process of normal and anomalous secondary thickening in plants.
 |
| * Know the morphological and anatomical adaptations of plants growing in different habitats.
 |
| * Understand the applications of botanical knowledge in the field of crop improvement for human prosperity.
 |
| * Develop skills for differentiating one group of plant from another one based on internal characters.
 |
| * Develop skills in various plant breeding techniques.
 |

**Semester V**

|  |  |
| --- | --- |
| **Course** | **Course Outcome** |
| **Environmental Biology and** **Human Rights**  | * To impart basic knowledge on ecosystems and their functioning, to develop the real sense of Human rights - its concepts and manifestations
 |
| * Students learn about various types of anthropogenic pressures on ecosystem, related degradation and management measures.
 |
| * Students study about toxicants, their impacts on human health and environment and remedial measures.
 |
| * Students are able to think out of the box and also develop the skill of logical interpretation.
 |
|  **Cell Biology and Genetics** – | * To emphasize the central role of Cell biology and Molecular Biology, being the most developing areas of biological science.
 |
| * Students understand the structure and function of the cell as the fundamentals for understanding the functioning of all living organisms.
 |
| * Students develop critical thinking, skill and research aptitudes in basic and applied biology.
 |
|  **Evolution, Ethology and Zoogeography -** | * To acquire knowledge about the evolutionary history of earth - living and nonliving
 |
| * To acquire basic understanding about evolutionary concepts and theories.
 |
| * To study the distribution of animals on earth, its pattern, evolution and causative factors
 |
| * To impart basic knowledge on animal behavioural patterns and their role.
 |
| * Students develop knowledge about the resilient capacity of earth.
 |
| **Human Physiology, Biochemistry and Endocrinology** | * This course will provide students with a deep knowledge in biochemistry, physiology and endocrinology.
 |
| * It will help the students in defining and explaining the basic principles of biochemistry useful for biological studies for illustrating different kinds of food, their structure, function and metabolism.
 |
| * Students will acquire a broad understanding of the hormonal regulation of physiological Processes in invertebrates and vertebrates.
 |
| * This course will enable the students to design experiments for further study and research.
 |

**Semester VI**

|  |  |
| --- | --- |
| **Course** | **Course Outcome** |
| **Developmental Biology** | * This will provide a basic understanding of the science of embryology.
 |
| * This course will enable the students to design experiments for further study and research.
 |
| **Microbiology and Immunology** | * To inspire the students in learning the frontier areas of biological sciences.
 |
| * To make them aware of the pathogens, health related problems, their origin and treatment.
 |
| * To equip the students with the knowledge of modern developments and recent trends in Biological Sciences.
 |
| **Biotechnology, Bioinformatics and Molecular Biology** | * Students are grilled through the basics of Molecular Biology and Bioinformatics.
 |
| * They are also introduced to the technology of the 21st century i.e Biotechnology wherein they learn about the tools of genetic engineering, Polymerase chain reaction, DNA profiling, Southern, Northern and Western Blotting techniques.
 |
| * To develop critical thinking skill and research aptitude among students, by introducing the frontier areas of the biological science.
 |
| **Occupational Zoology**  | * Students learn about apiculture, vermiculture, aquaculture and quail farming.
 |
| * They are introduced to the areas of self employment and entrepreneurship.
 |

**B.Sc Chemistry Model II**

**Programme: BSc. Chemistry**

**I Programme Specific Outcome**

* Major aims and objectives of the BSc. Chemistry Model II programme are listed here.
* To understand the basic facts and concepts in chemistry, while retaining the exciting aspects of chemistry so as to develop interest in the study of chemistry as a discipline.
* To read understand and interpret chemical information:- Verbal, Mathematical & graphical.
* To appreciate the achievements in chemistry &to know the role of Chemistry in nature and in society.
* To develop problem solving skills
* To develop skills in the proper handling of apparatus and chemicals
* To be exposed to the different processes used in industries and their applications
* To be inquisitive towards advanced chemistry and developments therein
* To develop the ability to apply the of principles of Chemistry

**Course Outcome**

|  |  |  |
| --- | --- | --- |
| **Subject Outcome (SO)** | **Learning Outcome (LO)** | **Cross critical Outcome (CCO)** |
| **SEMESTER I****Core Course 1 – GENERAL AND ANALYTICAL CHEMISTRY**Module 1- Methodology of ChemistryModule II- Periodic Table and Periodic PropertiesModule III- Analytical Methods in Chemistry Module Iv- Chromatographic Methods Module V- Evaluation of Analytical Data | 1.Students are gaining a broad outline of the methodology of science in general and Chemistry in particular. 2.Able to understand the important analytical and instrumental tools used for practicing chemistry  | 1.Students are able to apply the obtained scientific skills in the anlaysis of experimental data in chemistry practical.2.Develop interest in the research. |
| **SEMESTER II****Core Course II – THEORETICAL AND INORGANIC CHEMISTRY**Module I - Atomic StructureModule II – Chemical Bonding – IModule III- Chemical Bonding – IIModule IV- Chemistry of s and p Block ElementsModule V- Chemistry of d and f Block Elements | 1.Study the various atom’s models. 2.Understand the periodic properties of elements.3. Know about the formation of different types of bonds in molecules.4.Know about the geometry of simple molecules. | Develop interest in various branches of Inorganic Chemistry.  |
| **SEMESTER III****Core Course III – ORGANIC CHEMISTRY – I** Module I – Fundamentals of Organic ChemistryModule II – Stereochemistry Module III- Aliphatic Hydrocarbons and Alkyl HalidesModule IV-Aromatic Hydrocarbons and Aryl HalidesModule V-Pericyclic Reactions | 1.Understand about the classification &nomenclature of organic compounds.2.Knowing the fundamentals of organic reaction mechanisms | Capable of understanding and studying organic reactions.Got an exposure to various emerging areas of organic chemistry. |
|  |  |  |
| **SEMESTER IV****Core Course IV – ORGANIC CHEMISTRY –II** Module I – Alcohols, Phenols and EthersModule II – Aldehydes and Ketones Module III- Carboxylic Acids, Sulphonic Acids and their Derivatives | Learn the important chemistry of alcohols, phenols, carboxylic acid, derivatives of acids, carbonyl compounds, Grignard reagent etc.. | Develop curiosity in understanding and studying organic reactions. |
| **SEMESTER V****Core Course V – ENVIRONMENTAL STUDIES AND HUMAN RIGHTS**Module I – Multidisciplinary Nature of Environmental Studies Module II – EcosystemsModule III- Social Issues and the Environment Module IV – Air, Water and Soil PollutionModule V – Toxicology and Toxicological EffectsModule VI- Introduction to Green ChemistryModule VII- Environmental Aspects of Nuclear ChemistryModule VIII- Introduction to Human Rights | 1.Understand about the environmental pollution, importance of energy conservation and environmental protection2.Knowing the basic aspects of green chemistry and nuclear chemistry3.Aware about the Fundamental rights and Indian Constitution,Rights for children and women, Scheduled Castes, Scheduled Tribes, Other Backward | 1.Enables to prevent the environmental pollution.2.Motivate them for environmental protection and energy conservation |
| **SEMESTER V****Core Course VI –ORGANIC CHEMISTRY - III**Module I –Nitrogen Containing CompoundsModule II – Heterocyclic CompoundsModule III- Active Methylene CompoundsModule IV- CarbohydratesModule V- DrugsModule VI- DyesModule VII- Polymers | 1.Knowing the chemistry of nitrocompounds, amines, salts, detergents, soaps etc..2.Understanding the elemental idea of chemotherapy. | Aware about the applications of chemistry in everyday life. |
| **SEMESTER V****Core Course VII– PHYSICAL CHEMISTRY - I**Module I – Gaseous StateModule II – Liquid StateModule III- Solid StateModule IV- Surface Chemistry and Colloidal State | 1.Know about the intermolecular forces in Gases and Liquids.2.Learn about the structure of solids and crystals | Creates enthusisasm in structural aspects of 3 states of matter. |
| **SEMESTER V****Core Course VIII – PHYSICAL CHEMISTRY – II**Module I –Quantum Mechanics Module II –Molecular Spectroscopy-I Module III- Molecular Spectroscopy-II | 1.Know about the classical mechanics and quantum mechanics.2.Acquires the fundamentals of spectroscopy | Using the various spectroscopic technique students are able to do the structural elucidation of molecules |
| **SEMESTER V****Open Course – CHEMISTRY IN EVERYDAY LIFE** Module I –Units and Dimensions and Light Module II –Motion and Electricity Module III- Matter and Energy and Universe | 1.Acquiresbasic idea regarding the composition,production, and applications of certain daily using chemicals like food additives, soaps and detergents, drugs, polymers etc.. | Understanding the chemistry behind the certain daily using molecules, which will create an awareness to what is good and what is bad .Students become enlightened about the pros and cons of using processed food studffs. |
| **SEMESTER VI****Core Course IX – INORGANIC CHEMISTRY**Module I – Coordination Chemistry - IModule II – Coordination Chemistry - IIModule III- Cooridnation Chemistry IIIModule III- Organometallic CompoundsModule IV- Bioinorganic ChemistryModule V- Inter-halogen and Noble Gas CompoundsModule VI-Boron Compounds | Know about the structure and bonding in coordination and organometallic compounds | 1.Aware about the application of coordination and organometallic compounds2.Promote them for higher studies in coordination chemistry |
| **SEMESTER VI**Core Course X – ORGANIC CHEMISTRY - IV Module I – Natural ProductsModule II – LipidsModule III- Vitamins, Steroids and HormonesModule IV- Amino Acids, Peptides and ProteinsModule V- Nucleic AcidsModule VI- Enzymes Module VII- Supramolecular ChemistryModule VIII- Organic Photochemistry Module IX- Organic Spectroscopy | To learn in detail the chemistry of carbohydrates, heterocyclic compounds, amino acids, proteins and nucleic acids , enzymes, proteins and nucleic acid.. To study the fundamentals of terpenoids, alkaloids, vitamins, lipids and steroids To have an elementary idea of supramolecular chemistry and Green Fluorescent Proteins Understands the principles of different spectroscopy | Creates an enthusiasm in the chemistry of various natural products |
| **SEMESTER VI**Core Course XI– PHYSICAL CHEMISTRY – IIIModule I -Thermodynamics-IModule II- Thermodynamics-IIModule IV- Chemical EquilibriaModule V- Ionic EquilibriaModule VI- Phase equilibriaModule VII- Chemical Kinetics | To study the laws of thermodynamics  | Get an insight into the thermodynamic and kinetic aspects of chemical reactions and phase equilibria. |
| **SEMESTER VI**Core Course XII – PHYSICAL CHEMISTRY – IVModule I- SolutionsModule II- Electrical ConductanceModule III- Electromotive ForceModule IV- PhotochemistryModule V- Group Theory | To study the behaviour of binary liquid mixtures, CST, azeotropes, colligative properties To study solubility of gases in liquids, To study ionic equilibria and electrical properties of ions in solution. To study the concepts of acids and bases, pH and buffer solutions  | To provide an insight into the characteristics of different types of solutions and electrochemical phenomena |
| SEMESTER VIChoice Based Course XIII – POLYMER CHEMISTRYModule I –Introduction and History of Polymeric MaterialsModule II –Polymerisation TechniquesModule III- Physical Properties of PolymersModule IV- Reactions of PolymersModule V- Polymer DegradationModuke VI- Polymer ProcessingModule VII- Chemistry of Commercial PolymersModule VIII- Specialty Polymers | To know about the types of polymers and the chemistry of polymerisation. To know the chemistry of individual polymers, their preparation and properties To have an idea about the recent advances in polymer science  | Enables to minimize the usage of plastics. |

**VOCATIONAL COURSES**

|  |  |  |
| --- | --- | --- |
| **SEMESTER I****VOCATIONAL 1-INDUSTRIAL ASPECTS OF INORGANIC AND ORGANIC CHEMISTRY**Module 1-Module IIModule IIIModule IVModule VModule VI | 1.Provide an exposure to the industrial aspects of different branches of chemistry and some aspects of chemical engineering2.Students studying the  various natural sources of energy and industrially important materials derived from them 3.Aware about the the basic concepts of metallurgical operations 4.Knowing about the basic concepts of the energy and material balance  | Familiarize with the industrial importance of inorganic materials, their availabililty, structure properties etc..Developing interest in the field of chemical engineering |
| **SEMESTER II****CHEMICAL INDUSTRIES AND INDUSTRIAL ASPECTS****OF PHYSICAL CHEMISTRY**Module I-VIII | 1.Know about the industrial applications of some aspects of physical chemistry **.**  2.Understanding the Surface phenomena of liquid.3.Know about the Different methods of separation process | Able to suggest methods for the separation of mixures |
| **SEMESTER III-UNIT OPERATIONS IN CHEMICAL INDUSTRY****Module I-**DistillationModule II-AbsorptionModule III-Evaporation’Module IV-FiltrationModule V-Crystallization | Giving an exposure to the various unit operations and processes in industry | Understanding the application of certain unit operations in daily life |
| **SEMESTER III-UNIT PROCESSES IN ORGANIC CHEMICALS****MANUFACTURE** |  |  |
| Module II-HalogenationModule III-OxidationModule IV-hydrogenationModule V-EserificationModule VI- Amination by reductionModule VII-Alkylation | Provide an understanding of some important unit processes in organic chemicals manufacture | Able to suggest a method for the preparation of certain industrially important organic compounds |
| **SEMESTER IV****INSTRUMENTAL METHODS OF CHEMICAL****ANALYSIS-I**Module I-Principles of InstrumentationModule II-Typical Analytical Instruments -1Module III- Typical Analytical Instruments -2Module IV- Electro Analytical InstrumentationModule V- Chromatographic instrumentation | To study the principle and instrumentation of 1.UV-Visible and IR spectrophotometry 2.Spectrofluorimetry 3.Atomic Absorption Spectrophotometry 4.Column, Paper, Thin- layer, and Gas Chromatography 5.Different Electroanalytical techniques  | 1.understanding of the principle and instrumentation of different instrumental methods of chemical analysis2. Able to operate conductometer, potentiometer and can determine the conductivity and concentration of a given solution3. Able to separate a given mixture by chromatographic technique |
| **SEMESTER IV****INSTRUMENTAL METHODS OF CHEMICAL****ANALYSIS-II**Module I- Process InstrumentationModule II-Microprocessor Based InstrumentsModule III-Surface Analysis and Microscopic techniquesModule IV-Optical MethodsModule V-Thermo analytical techniquesModule VI-SFC and Electrophoresis | To study : The principle, construction and working of devices for the measurement of temperature,pressure,liquid level, density,and viscosity  | Able to determine the temperature and pressure of a given system |

**Complementary Courses**

|  |  |  |
| --- | --- | --- |
| **Semester** I BASIC THEORETICAL AND ANALYTICALCHEMISTRYModule I-Atomic Structure and Chemical BondingModule II- Fundamental Concepts in ChemistryModule III- Basic Principles of Analytical ChemistryModule IV- Chromatographic Techniques | 1.To study atomic structure, basics of thermodynamics and the concept of equilibrium 2.To understand principles of analytical chemistry and chromatographic techniques | 1.Provide an insight into some of the fundamental concepts and principles that are very essential in the study of chemistry |
| Semester IIBASIC ORGANIC CHEMISTRYModule I- Fundamental Concepts of Organic ChemistryModule II- Mechanisms of Organic ReactionsModule III- Stereochemistry of Organic CompoundsModule IV- Natural and Synthetic Polymers | 1.To study Stereochemistry of organic compounds 2.Mechanisms of some basic organic reactions 3.Classification of polymers, polymerization reactions, and the structure and uses of some commercial and natural polymers  | Creates interest in studying the fundamental aspects of organic chemistry |
| Semester III**PHYSICAL CHEMISTRY – I**Module I- **Solids and Crystalline State**Module II- Mechanisms of Organic ReactionsModule III- **Liquid State and Solutions**Module IV **Gaseous State**Module IV- **Surface Chemistry and Colloids**Module V- **Phase Equilibrium** | 1.To enable the students to get a clear idea about the molecular structure 2.To make students capable of understanding and studying electrical and nuclear properties of molecules  | To give the students a thorough knowledge about molecular structure and its electrical and nuclear properties and to develop proper aptitude towards the study of molecular structure |
| **Semester IV**-**PHYSICAL CHEMISTRY – I**IModule I Introduction to SpectroscopyModule II- Nano ChemistryModule III- Kinetics, Catalysis & PhotochemistryModule IV ElectrochemistryModule IV- Surface Chemistry and ColloidsModule V- Phase Equilibrium | 1.To help the students to get a basic idea about spectroscopy 2. To enable the students to study the rules governing chemical reactions and factors influencing them  | To promote understanding of the basic facts and concepts in spectroscopy and to develop interest in students to study the structure and properties of matter. |
|  |  |  |

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| --- | --- |
| SUBJECT OUTCOME | LEARNING OUTCOME |
| MODULE 1-PARTIAL DIFFERENTIATION | * understand the meaning of partial differentiation
* Calculate partial derivative
* Know the physical interpretation of partial derivative
 |
| MODULE 2-MATRICES | Students will be able to know what is meant by: * a system of linear equations,
* how to use Echelon forms in finding solution set of linear system
* , determine whether the set of vectors are linearly dependent or independent,
* how to compute eigen values and eigen vectors
 |
| MODULE 3-PLANE TRIGONOMETRY | * Able to convert powers of sines , cosines into a series of sines and cosines of multiple angles and vice versa
* Learning sum to infinity of sine and cosine series by cis method
* Learning hyperbolic functions and the interrelation between hyperbolic and trigonometric function and important identities of hyperbolic functions
 |
| MODULE 4-NUMERICAL METHODS | * Able to derive appropriate numerical methods to solve algebraic and transcendental equations especially bisection method ,Regula –Falsi method,Iteration method and Newton-Raphson method
 |

PROGRAMME SPECIFIC OUTCOME : SEMESTER I

SEMESTER II

|  |  |
| --- | --- |
| MODULE-I INTEGRAL CALCULUS | * Will be able to interpret area of plane region,volume of solid of revolution using cylindrical shell and disk methods
* To find the length of plane curves ,surface area of solid of revolution
 |
| MODULE IIMULTIPLE INTEGRALS | * To compute double integral over rectangular region, over a sector of an annulus using polar co-ordinates
* Compute area , volume etc by using multiple integrals
 |
| MODULE III&IV-ORDINARY AND PARTIAL DIFFERENTIAL EQUATIONS | * Able to apply fundamental concepts of ordinary and partial diff. Eqns
* Solve the problems choosing most suitable method
* Formulate and solve differential equation problems in the field of industrial organisation and engineering
 |

SEMESTER III

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| SUBJECT OUTCOME | LEARNING OUTCOME |
| MODULE I &II-VECTOR CALCULUS | Students are able to* Calculate scalar and vector products
* Find the vector equations of lines and planes
* Understand parametric equations of curves and surfaces
* Differentiate vector functions of a single variable
* Calculate velocity and acceleration vectors for moving particles
* Understand and be able to find the unit tangent and normal vector and curvature of space curves
* Find the gradient of a function
* Find the divergence and curl of a vector field
* Use the gradient operator to calculate the dir.derivative of a function
* Recognise irrotational and solenoidal vector fields
* Evaluate line and surface integrals
* Understand the various theorems ie Greens theorem,Stokes theorem and Divergence theorem
 |
| MODULE III-CONIC SECTIONS | * Students will discover the three types of conics:parabola,ellipse and hyperbola
* Use reasoning toclassify the conic sections
* Use problem solving skills to build a classification system for the conic sections
* Use polar equations to conic section
 |
| MODULE IV-ABSTRACT ALGEBRA | * Toprovide afirst approach to the subject of Algebra,which is one of the basic pillars of Modern AlgebraThe focus of this module will be the study of groups ,subgroups and group homomorphism
* Able to understand symmetries of equilateral triangle,square and various rigid bodies
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+SEMESTER IV

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| SUBJECT OUTCOME | LEARNING OUTCOME |
| MODULE I-FOURIER SERIES &LEGENDER POLYNOMIALS | * Represent continuos time periodic signals using Fourier series
* Understand properties of Fourier series
* Understand the relationship between fourier series and linear time invariant system
* Able to identify Legendre and associated Legender diff. Equations
* Obtain Legendre polynomials from the solutions of legendre diff.equations
* Obtain legendre poly. From the generating function as well as Rodrigues formula
* Derive recurrence relation for Legendre poly.
* Derive orthogonality relation for Legendre poly.
* Solve problems related to electroststic and gravitational potentials
 |
| MODULE II- LAPLACE TRANSFORM | Able to * Find the Laplace transform of a function by definition and by use of a table
* Find the inverse Laplace transform of a function
* Find transforms using first and second translation theorems
* Find transform of derivative and integrals
* Solve linear diff. Equations with constant coefficients
 |
| MODULE III &IV COMPLEX NUMBERS , FUNCTIONS & COMPLEX INTEGRATION | Able to* Use imaginary unit i to writecomplex numbers
* Add , subtract and multiply complex no.
* Understand the geometric interpretation of complex no.,know the methods of

 of finding nth root of complex no.* Understand how complex numbers provide a satisfying extension of the real numbers
* Understand analytic functions, Cauchy’s theorem, and cauchy’s integral formula
 |

**B A POLITICAL SCIENCE**

**MODEL-II**

**MASS COMMUNICATION AND JOURNALISM**

**VOCATIONAL PROGRAMME**

**Programme Outcome**

Students completing the requirements for a B.A. degree in Political Science and Journalism will be able to:

1. Write clearly and with purpose on issues of international and domestic politics and public policy;
2. Participate as a civically engaged member of society;
3. Analyze political and policy problems and formulate policy options;
4. Use electronic and traditional library resources to research key local, state, national and international policy issues and present results;
5. Demonstrate competency with basic tools underlying modern social science research including competency in statistics and qualitative analysis
6. Demonstrate critical thinking, including the ability to form an argument, detect fallacies, and martial evidence, about key issues of public policy and politics;
7. Discuss the major theories and concepts of political science and its subfields; and
8. Deliver thoughtful and well articulated presentations of research findings.
9. Write persuasively about major issues of environmental politics.
10. Describe the environmental policy making process, including the influence of local constituencies on national decision makers.
11. Evaluate the competing claims made by interest groups in various environmental politics issue areas.
12. Analyze the legislative and rule making processes and the use of environmental science by decision makers.
13. Research the role of the courts in environmental policy making in India
14. Compare and contrast environmental politics in India with the politics of other nations.
15. Developing graduates who are capable of understanding communication, expression, and storytelling in a media, organizational, interpersonal and social context.
16. 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.
17. 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.
18. The media arts department enables students to become creative media makers and critical thinkers. Students are encouraged to create media as self-expression to engage with the world around them, to foster inter-cultural and interdisciplinary dialogue; and to reflect on social issues.

**Programme Specific Outcome**

**Core I. Sem-I** Methodology and Perspectives of Political Science.

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|  | Subject Outcome | Learning Outcome | Cross Critical Outcome |
| Module-I | Growth and Evolution of Social Science | To help the students understand the disciplinary history of Social Science, by understanding the historical evolution of modern and post modern social scientific practices | Analytical and comparative skills.Multi disciplinary understandings |
| Module-II | Science in Social Science | To help the students understand the fundamental aspects of methodology and philosophy of social sciences. | Research orientationScientific outlookInterdisciplinary understandings |
| Module-III | Political Science as a social science | To help the students understand the disciplinary history of Political Science.Seeks to provide some ideas on the major debates in the social scientific methodologies in Political ScienceAnalyze political and policy problems and formulate policy options | Use electronic and traditional library resources to research key local, state, national and international policy issues and present resultsDemonstrate competency with basic tools underlying modern social science research including competency in statistics and qualitative analysis |
| Module-IV | Approaches and concepts of Political Science | Demonstrate competency with basic tools underlying modern social science research including competency in statistics and qualitative analysisDiscuss the major theories and concepts of political science and its subfields | Critical thinkingAbility in concept formationCognitive and evaluative skills |

**Core – II Sem-II Indian Constitution: Institutions and Processes**

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|  | Subject Outcome | Learning Outcome | Cross Critical Outcome |
| Module-I | Genesis of the Constitution, Philosophical and Ideological base of the Constitution of India | To help the students understand the historical evolution of democratic political system in India and to make cognitive, evaluative and affective orientations to their Rights and Duties and to help them participate in the political process more effectively | Linguistic skillsComparative abilityCitizenship trainingPresentation skills |
| Module-II | Government of the Union and States | To help students trace constitutional developments, inquire on the basic structures and values of the political system and the constitution and functioning of the governments | Helps to become effective citizensSkills to comprehend and evaluate effectively the current political and economic situation of IndiaReading habits of journals and news papers |
| Module-III | Major Constitutional Amendments | To understand and evaluate the evolution and growth of the political system of India | To widen the thinking ability by looking for more improvements |
| Module-IV | Constitutional and statutory Commissions | To make the students aware of the Constitutional and statutory commissions | Presentation skillsTechniques of group discussion Evaluative skills |

**Core – III Sem-III Issues and Political Processes in Modern India**

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|  | Subject Outcome | Learning Outcome | Cross Critical Outcome |
| Module-I | State reorganization issues, Regionalism and Centre –State relations | To study the power of the centre and the autonomy of states within the Indian federal system | Linguistic skillsComparative abilityCitizenship trainingPresentation skills |
| Module-II | Party system, Coalition politics, Interest groups | To critically study the socio-political and cultural diversities in relation to centre state relations and political parties | Skills to comprehend and evaluate effectively the current political and economic situation of India |
| Module-III | Regional Political Parties | To critically study the socio-political and cultural diversities in relation to centre state relations and regional political parties | Evaluative skillsCritical thinking |
| Module-IV | Major issues and movements | To analyse the local impacts that derive from social stratifications based on caste, language etcTo analyse the the role of common people and Non Governmental Organisations in the social change | Better political understanding and better social and political participation Critical thinking |

**Core – IV Sem-III Political Thought: Indian Traditions**

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|  | Subject Outcome | Learning Outcome | Cross Critical Outcome |
| Module-I | Understanding Political thought in India | To acquaint students with the fundamental texts and diverse traditions of Indian Political Thought in the pre modern and modern periods. It seeks to recognize the continuity and change in various traditions like Brahmanic and Shramanic streams | Comparative analytical ability Presentation skillsTechniques of group discussion Evaluative skills |
| Module-II | Indian Renaissance | To engage students with empirical and normative justifications provided by various political thinkers | Thinking ability for a modern India |
| Module-III | Freedom, secularism, socialism and justice | To help students critically analyse the enjoyment of freedom, socialism, seqularisn  | Better understanding of the present situations in India |
| Module-IV | Universalism, modernism, nationalism and self respect | To widen the vision of students with a universal outlook | Linguistic and communication skillsPresentation skills |

**Core – V Sem-IV Introduction to Political Theory**

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|  | Subject Outcome | Learning Outcome | Cross Critical Outcome |
| Module-I | Political Theory- Traditions and Approaches | To help the students understand the fundamental concerns of political theory and political philosophy from a methodologically pluralist point of view. It helps the students analyse and understand various traditions, concerns and approaches to political theory. | Analytical ability.Linguistic and communication skills.Presentation skills and group discussion skills. |
| Module-II | State, Nation and Sovereignty | It engages with aspects of state, nation, sovereignty, political system , etc | Interdisciplinary outlook.Introducing to modern and statistical methods of study in political science.Ability for concept formation. |
| Module-III | Central Concepts in Political Theory | Introduces the students to various concepts in political theory | Better understanding of democratic concepts.Better citizenship trainingAbility for concept formation. |
| Module-IV | Justice and democracy | Introduces the students to the concepts of justice and democracy in political theory | Skill of logical thinking.Better understanding of democratic concepts.Better citizenship trainingAbility for concept formation. |

**Core – VI Sem-IV Political Though: Western Traditions**

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|  | Subject Outcome | Learning Outcome | Cross Critical Outcome |
| Module-I | Approaches and methods to the study of Political Thought | To acquaint students with the fundamental texts and diverse traditions of Western Political Thought in the pre modern and modern periods.The course tries to introducevarious reading strategies like textual, contextual and hermeneutic methods for anlysing, interpreting and evaluating political thinkers/ texts of different periods. | Comparative analytical ability Presentation skillsTechniques of group discussion Evaluative skills |
| Module-II | Medieval and social contractualists | It engages with the central ideas and values of political texts and also traces the empirical and normative justifications provided by various political thinkers in the case of state, authority, justice, equality, political obligation and so on | Thinking ability for a modern world |
| Module-III | Utilitarian and Idealist traditions | Traces the empirical and normative justifications provided by various political thinkers in the case of state, authority, justice, equality, political obligation and so on | Linguistic and communication skillsPresentation skills |
| Module-IV | Marxist traditions | Inculcates cognitive, analytical and evaluative knowledge of various Marxist traditions | Techniques of group discussion Evaluative skills |

**Core – VII Sem-V Theories and Principles of Public Administration**

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|  | Subject Outcome | Learning Outcome | Cross Critical Outcome |
| Module-I | Public Administration- meaning, nature and theories | To provide basic understanding of the discipline public administrationTo have cognitive and evaluative understanding of western and non western theories of public administration | Orientation to the science of managermentDevelops human values |
| Module-II | Organisations and its Principles | To explore some contemporary social values and how the call for greater democratization and how far it is restructuring the realm of public administration | Organisational abilityOrientation and practice for decentralisation |
| Module-III | Personnel and financial administration | To provide an understanding of bureaucracy, recruitment, grievance redressal mechanisms, right to information and financial administration | Orientation to the science of financial managermentFinancial discipline |
| Module-IV | Recent trends and developments in Public Administration | To explore recent trends and developments in Public Administration with a current outlook | Reading habitsAnalytical skillsIntroducing one to current realm of understandingHabit of keeping oneself up to date |

**Core – VIII Sem-V Environment Studies and Human Rights**

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|  | Subject Outcome | Learning Outcome | Cross Critical Outcome |
| Module-I | Multi Disciplinary Nature of Environmental Studies, Natural Resources, Eco systems | Environmental Education encourages students to research, investigate how and why things happen, and make their own decisions about complex environmental issues by developing and enhancing critical and creative thinking skills. It helps to foster a new generation of informed consumers, workers, as well as policy or decision makers. • Environmental Education helps students to understand how their decisions and actions affect the environment, builds knowledge and skills necessary to address complex environmental issues, as well as ways we can take action to keep our environment healthy and sustainable for the future. It encourages character building, and develop positive attitudes and values. • To develop the sense of awareness among the students about the environment and its various problems and to help the students in realizing the inter-relationship between man and environment and helps to protect the nature and natural resources. • To help the students in acquiring the basic knowledge about environment and the social norms that provide unity with environmental characteristics and create positive attitude about the environment.  | Master core concepts and methods from ecological and physical sciences and their application in environmental problem solving.Master core concepts and methods from economic, political, and social analysis as they pertain to the design and evaluation of environmental policies and institutions.Appreciate the ethical, cross-cultural, and historical context of environmental issues and the links between human and natural systems.Understand the transnational character of environmental problems and ways of addressing them, including interactions across local to global scales.Apply systems concepts and methodologies to analyze and understand interactions between social and environmental processes.Reflect critically about their roles and identities as citizens, consumers and environmental actors in a complex, interconnected world.Demonstrate proficiency in quantitative methods, qualitative analysis, critical thinking, and written and oral communication needed to conduct high-level work as interdisciplinary scholars and/or practitioners. |
| Module-II | Biodiversity and its conservation, Environmental pollution, Social issues and environment |
| Module-III | Meaning and approaches of human rights |
| Module-IV | Human Rights and Environmental concerns |
| Module-V | Human Rights and United Nations, India and Environment |

**Core – IX Sem-VI Methodology of Research in Political Science**

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|  | Subject Outcome | Learning Outcome | Cross Critical Outcome |
| Module-I | Research Methodology | The course intends to familiarise the students with basic concepts of the Research Methods in Political Science .It also provides an idea of preparing Research design, various techniques of Data collection, Data analysis and report writing.understand some basic concepts of research and its methodologies • identify appropriate research topics • select and define appropriate research problem and parameters • prepare a project proposal (to undertake a project) • organize and conduct research (advanced project) in a more appropriate manner • write a research report and thesis • write a research proposal (grants) | Data Collection skillsSkills of Data Analysis Data TabulationInterview Skills  Communication SkillsResearch aptitudeAbility to observeInspiration to solve social issues |
| Module-II | Building Blocks of Social Research |
| Module-III | Data Collection |
| Module-IV | Data Processing and Analysis |

**Core – X Sem-VI Introduction to International Relations**

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|  | Subject Outcome | Learning Outcome | Cross Critical Outcome |
| Module-I | Emergence of the Discipline |  | Critical thinkingCommunication skills  Analytical AbilityGlobal Citizenship |
| Module-II | Basic Concepts in International Relations | Demonstrate a broad and deep understanding of international relationsKnow the major analytical and theoretical frameworks regarding international relations employed in political science and related disciplinesUnderstand international institutions and forces that drive behavior in international relations2. Possess the skills necessary to think critically and communicate effectively about international relationsCommunicate ideas through written argumentUse evidence to critically analyze ideas or policies3. Value active citizenship and a just societyAppreciate the rights and responsibilities of global citizenshipRecognize issues of social justice in global contexts |
| Module-III | Role of Ideology in International Politics |
| Module-IV | Foreign Policy: Ideas and Perceptions |  |

**Outcome Based Education (OBE)**

**Programme: B.A Economics**

**I Programme Outcome**

Major aims and objectives of the BA Economics programme are listed hereunder.

1. To provide students a well-founded education in Economics;

2. To provide structured curricula which support the academic development of students;

3. To provide and adapt curricula that prepare our graduates for employment and further study as economists;

4. To provide the students with the opportunity to pursue courses that emphasize quantitative and theoretical aspects of Economics;

5. To provide students with the opportunity to focus on applied and policy issues in Economics;

6. To provide programmes that allow the students to choose from a wide range of economic specialization;

7. To provide a well-resourced learning environment for Economics

**II Programme Specific Outcome**

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| **Name of the paper** | **Core 1**- **Perspectives and Methodology of Economics (EC1CRT01)** |
| **Subject Outcome****(SO)** | **Learning Outcome****(LO)** | **Cross Critical output****(CCO)** |
| Module I: Methodology of Social Science | The course intends to familiarize the students with the broad contours of Social Sciences. | Formation of concepts |
| Module II: Methodology, Concepts and tools of Economics | The course intends to familiarize the students with the scope of economics and the various concepts in economics. | Analysis |
| Module III: Major Schools of Economic Thought | The course also aims to create an enthusiasm among students about different schools of Economic thought. | Vocabulary |
| Module IV: Research Methodology | It aims to aware the students about various aspects of social science research, methodology, concepts, tools and various issues. | Research aptitude |

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| **Name of the paper** | **Core 2**- **Micro Economic Analysis I (EC2CRT02)** |
| **Subject Outcome****(SO)** | **Learning Outcome****(LO)** | **Cross Critical output****(CCO)** |
| Module I: Introduction to Microeconomics | It gives the foundation for economic analysis and problem solving. | Problem solving |
| Module II: Demand and Supply Analysis | This course provides an introduction to supply and demand and the basic forces that determine equilibrium in a market economy.  | Graphs and algebra |
| Module III: Theory of Consumer Behaviour | It introduces a framework for learning about consumer behaviour and analyzing consumer decisions. | Decision making |
| Module IV: Theories of Production and Cost | The course also attends to firms and their decisions about optimal production. | Profit maximisation |

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| **Name of the paper** | **Core 3- Micro Economic Analysis II (EC3CRT03)** |
| **Subject Outcome****(SO)** | **Learning Outcome****(LO)** | **Cross Critical output****(CCO)** |
| Module I: Market Structure | It gives the foundation for economic analysis and problem solving. | Problem solving |
| Module II: Monopolistic Competition and Oligopoly | This course provides an introduction to supply and demand and the basic forces that determine equilibrium in a market economy. I | Drawing |
| Module III: Income Distribution and Factor Pricing | It explains factor pricing under different forms of market. | Calculation |
|  Module IV: Welfare Economics | The course also attends to reveal the importance of social welfare. | Diagrammatic explanation |
| **Name of the paper** | **Core 4 -**  **Economics Of Growth & Development (EC3CRT04)** |
| **Subject Outcome****(SO)** | **Learning Outcome****(LO)** | **Cross Critical output****(CCO)** |
| Module I - Introduction to Economics of Growth and Development | It enables the student to acquaint with the basic concepts and issues of growth and development | Formation of concepts |
| Module II - Approaches to Development | It makes a student more insightful about the modern approaches to development. | Vocabulary |
| Module III - Theories and Factors in the Development Process | It makes a student aware of different theories of economic development | Development of strategies |
| Module IV - Human Resource and Development | It explains the role of human resource in economic development and the need of gender equality. | Manpower planning. |

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| Name of the paper | **Core 5 - Macro Economics I ( EC4CRT05)** |
| **Subject Outcome****(SO)** | **Learning Outcome****(LO)** | **Cross Critical output****(CCO)** |
| Module I: Introduction to Macroeconomics | It gives the foundation for macro economic analysis. | Formation of concepts |
| Module II: Classical Macro economics | This course provides information about output and employment determination under classical model and its major drawbacks. | Arithmetic skill |
| Module III: Keynesian Macro economics | It explains Keynesian revolution and introduces a framework of consumption function and its numeric and algebraic illustration. | Arithmetic skill |
|  Module IV: Orthodox Keynesian Models | The course also attends Two sector Keynesian cross model of income determination and different types of multipliers. | Drawing |
| **Name of the paper** | **Core 6 - Public Economics (EC4CRT06)** |
| **Subject Outcome****(SO)** | **Learning Outcome****(LO)** | **Cross Critical output****(CCO)** |
| Module I- Introduction to Public Finance | It enables the student to acquaint with the basic concepts related with public finance. | Concept formation |
| Module II- Public Revenue | This course equips students to learn about the working of the public finance system. | Financing  |
| Module III- Public Expenditure | It gives information about public expenditure in India | Vocabulary |
| Module IV- Federal Finance | It aims to gain knowledge about the working of the Indian public finance. | Vocabulary |

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| **Name of the paper** | **Core- 7 Quantitative Techniques (EC5CRT07)** |
| **Subject Outcome****(SO)** | **Learning Outcome****(LO)** | **Cross Critical Output****(CCO)** |
| Module I: Basic Mathematics for Economic Analysis | Introduce the body of mathematics to enable the study of economic theory | Concept formation |
| Module II: Calculus- Limits & Continuity, Derivatives | Prepare the students for the use of calculus and differentiation in economic theory | Calculation |
| Module III: Set theory | Aware the students about the use of set theory in economic analysis | Arithmetic skill |
| Module IV: Theory of Probability  | Explains the importance and scope of probability in Economics | Arithmetic skill |

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| **Name of the paper** | **Core- 8 Macro Economics II (EC5CRT08)** |
| **Subject Outcome****(SO)** | **Learning Outcome****(LO)** | **Cross Critical Output****(CCO)** |
| Module I- Theories of Consumption and Investment | Introduce the theories of consumption and investment and explains its importance in macro economic policy making. | Preparing investment planes |
| Module II- Money, Inflation and Unemployment | Give information about the causes and consequences of inflation and deflation.  | Vocabulary |
| Module III- Fluctuations, Monetary and Fiscal Policies | Aware the students about the application of monetary and fiscal policy. | Problem solving |
| Module IV- Post Keynesian Schools of Macroeconomic Thoughts | Explains the basic postulates of monetarism. | Critical thinking |

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| **Name of the paper** | **Core 9- Environmental Economics (EC5CRT09)** |
| **Subject Outcome (SO)** | **Learning Outcome(LO)** | **Cross Critical Output(CCO)** |
| Module I - Multidisciplinary nature of environmental studies, Natural Resources and Ecosystems | Aware the students about environmental study | Critical thinking |
| Module II - Biodiversity and its conservation, Environmental Pollution and Social Issues and the Environment | Understand the problem of environmental pollution and importance of conservation of bio diversity | Waste management |
| Module III – Economics and Environment | Explains the importance of the study of Environmental Economics | Nature friendly approaches |
| Module IV - Framework and Criteria for Environmental Analysis | Explains the importance and methods of environmental accounting in India and also important legislations related with environment | Legal awareness |
| Module V– Human Rights, Human Rights and United Nations AND Human Rights and environmental rights | Aware the students about human rights and environmental rights | Legal awareness |

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| **Name of the paper** | **Core 10-** **Introductory Econometrics** **(EC5CRT10)** |
| **Subject Outcome (SO)** | **Learning Outcome(LO)** | **Cross Critical Output(CCO)** |
| Module I - Classical Liner Regression Model | Aware the students about Population regression function (PRF) and Sample regression function (SRF) | Arithmetic skill |
| Module II - Estimation of PRF— | Markov Theorem and the assumptions of Classical Linear Regression Model | Arithmetic skill |
| Module III – Evaluation of SRF | Reliability and Precision of OLS estimators | Arithmetic skill |
| Module IV - Hypothesis testing and estimation | Hypothesis testing of OLS estimators | Arithmetic skill |
| Module V– Relaxing the assumptions of Classical Linear Regression Model Hetroscedasticity | Nature, estimation in its presence—detection and remedial measures— | Arithmetic skill |

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| **Name of the paper** | **Core- 11 Quantitative Methods ( EC6CRT11)** |
| **Subject Outcome****(SO)** | **Learning Outcome****(LO)** | **Cross Critical Output****(CCO)** |
| Module I- Role of Statistics in Economics  | This course intends to provide an introduction to the importance of statistical tools in the study of economics. | Arithmetic skill |
| Module II- Central tendency: | Gives ideas about different types of averages. | Arithmetic skill |
| Module III- Correlation and Regression Analysis: | Explains the role of correlation and regression in economic analysis | Arithmetic skill |
| Module IV- Index Numbers | Enable the students to understand the uses and limitations of index numbers | Arithmetic skill |

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| **Name of the paper** | **Core 12 - International Economics (EC6CRT12)** |
| **Subject Outcome****(SO)** | **Learning Outcome****(LO)** | **Cross Critical Output****(CCO)** |
| Module I : Introduction to International Economics and Trade Theories  | Understanding and deep knowledge about the basic principles of international trade. | Critical thinking |
| Module II: Balance of Payments | Provide information about the basis of the flow of trade in goods and services at the global level. | Awareness about exchange rate |
| Module III: Foreign Exchange Market | Helps to understand the functions of foreign exchange market and the theories related with it. | Graphics |
| Module IV: International Monetary and Trade System | Give ideas about international monetary system and the various organizations related with it.  | Accounting |

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| **Name of the paper** | **Core 12 - Money & Financial Markets (EC6CRT13)** |
| **Subject Outcome (SO)** | **Learning Outcome (LO)** | **Cross Critical Output (CCO)** |
| Module I Financial System | Gives preliminary idea about the working of various financial system | Financing |
| Module II - Money and Central Banking  | Provide information about the developmental and stabilizing services for the central bank. | Problem solving |
| Module III - Banking | Helps to understand the functions of commercial banks. | Banking |
| Module IV - Money market | Give ideas about functions and components of money market.  | Short term financing |
| Module IV - Capital market | Give ideas about functions and components of capital market. | Ability of investment |

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| **Name of the paper** | **Core - 14 Indian Economy (EC6CRT14)** |
| **Subject Outcome (SO)** | **Learning Outcome (LO)** | **Cross Critical Output (CCO)** |
| Module I - Economic Development Strategy since Independence | Gives preliminary idea about important development strategies implemented after independence including LPG. | Vocabulary |
| Module II - Demographic Features | Provide information about the demographic features of the Indian economy. | Statistics |
| Module III - Agriculture, Industry and Service Sector | Helps to understand the role of different sectors of the economy in development process. | Employment |
| Module IV - Economic Planning and Development Issues | Give ideas about Strategies, Objectives and Achievements of Planning in India and NITI Aayog | Strategic planning |
| Module IV - Kerala Economy | Give ideas about the features of Kerala economy and explains Kerala model of development. | Vocabulary |

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| **Name of the paper** | **Choice Based Course - Business Economics ( EC6CBT 02)** |
| **Subject Outcome (SO)** | **Learning Outcome (LO)** | **Cross Critical Output (CCO)** |
| Module I: Introduction to Business Economics | Gives preliminary idea about the scope and methods of Business Economics  | decision making |
| Module II: Demand Analysis and Forecasting | Provide information about demand forecasting –types – methods of demand forecasting. | Prediction |
| Module III: Production and Cost Analysis |  This course helps students understand how analytical tools of micro and macro economics are applied for solving many practical business problems. | Problem solving |
| Module IV: Pricing and Profits | Provide tools of decision science to examine how an organisation can achieve its aims and objectives most efficiently. | Profit motive |
| Module V: Long Term Investment Decisions | Give ideas about the methods of investment criteria. | Investment decision making |

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| **Name of the paper** | **Open Course No I - Fundamentals of Economics (C5OPT01)**  |
| **Subject Outcome (SO)** | **Learning Outcome (LO)** | **Cross Critical Output (CCO)** |
| Module I - Basic Concepts | The course intends to familiarize the students with the basic concepts in economics. | Concept formation |
| Module II - Public Economics | This course equips students to learn about the working of the public finance system. | Budgeting |
| Module III - Financial System and International Trade | Gives preliminary idea about the working of various financial system | Financing |
| Module IV - Indian Economic Development | Give ideas about the features if the development process of Indian economy. | Policy making |

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| **Name of the paper** | **Complementary Course 1 - Roots of the Modern World( hy1cmt01)** |
| **Subject Outcome (SO)** | **Learning Outcome (LO)** | **Cross Critical Output (CCO)** |
| Module I - Pre-capitalist formations in the pre modern world | It introduces students to the processes and debates involved in the transition from feudalism to capitalism in Europe. | Skills for evaluating various economic systems |
| Module II - Renaissance and Reformation. Origin of the Nation State.Genesis of Capitalism Mercantilism -Commercial revolution.  | It intends to give the students a general idea on the origins of the modern world | Intellectual and Creative thinking |
| Module III - Scientific Revolutions - Industrial revolution and Agricultural revolution  | Students understand the various developments in different parts of the world. | Spirit of innovation and invention created among the students |
| Module IV - Capitalism World System Theory- Colonialism- in Asia , Africa and South America | The processes involved in the establishment colonies and colonial relations, and the effects on the nature of economic development. | Social commitment among the students |

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| **Name of the paper** | **Complementary Course 2 - Transition to the Contemporary World (HY2CMT03)** |
| **Subject Outcome (SO)** | **Learning Outcome (LO)** | **Cross Critical Output (CCO)** |
| Module I - Implications of French Revolution - | Consequences of French Revolution and its effects on Europe. | Develops the ideas of liberty equality and fraternity  |
| Module II - Imperialism | It analyses the problems of the present day world developments. | Geographical position of the countries. |
| Module III - The Great Depression in 1929-33 | Students understand the various developments after Great Depression. | General knowledge  |
| Module IV - Emergence of Anti-Colonial Movements in Asia and Africa | It further delves on the processes colonialism and the effects thereof on the nature of economic development in post colonial time | Social commitment among the students |

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| **Course** | **Course Outcome** |
| **Semester V Open Course: Physical Health and Life Skill Education** | To provide students a general concept of physical education and fitness. |
| To provide knowledge and understanding regarding health and nutrition. |
| To familiarize the students regarding safety education and health promotive measures for day to |
| day life. |
|  To promote an understanding of the value of sports for life skill development |
| Students learn the importance of developing and maintaining support networks among family, peers and the community, and seeking reliable sources of information to assist self and others in making decisions, practising skills and managing challenges and opportunities. |
| Students experience and develop an internal locus of control through activities that empower them to make decisions. Through decision-making processes they choose their responses, anticipate consequences and learn to accept responsibility for the results, which establishes the basis for proactive choices and behaviours. |

**Department of Physical Education**