



Bhandup Educational Society's
V. K. Krishna Menon College of Commerce and Economics and
Sharad Shankar Dighe College of Science and
P. A. Menon College of Management
info@menoncollege.edu.in


PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES AND COURSE OUTCOMES

The college is affiliated to the University of Mumbai thus, it follows the Curriculum framed by the Board of Studies, University of Mumbai

OPP. BHANDUP RAILWAY STATION, VEER SAVARKAR MARG, BHANDUP (EAST), MUMBAI - 400 042.

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Prin. (Mrs.) S. V. Phadnis
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BACHELOR OF COMMERCE PROGRAM OUTCOMES

Upon completion of the Program, the student shall

1. Know the primary functions of the business and key business terms which shall offer conceptual clarity of the Program chosen for higher studies
2. Learn the entire process of setting up of a business unit as well as managing the business activity, covering strategic aspects of business management such as accountancy, economics, environment, documentation and record
3. Be able to enhance both soft and hard skills in order to meet the challenges of the vocation
4. Get an opportunity to study multidimensional aspects of business and commerce including advertising, business communication, costing, marketing research etc which impact the organic growth of business
5. Be able to identify and choose appropriate field for personal career growth at the end of six semesters
6. Be sufficiently equipped with the knowledge of contemporary trends in business and commerce in 21st century



BACHELOR OF COMMERCE (ACCOUNTING AND FINANCE) PROGRAM OUTCOMES

Students who complete BAF program will be able to:

1. Develop an understanding of the economic, regulatory, ethical, social and global contexts in which accounting and finance is applicable
2. Provide knowledge of theories, current and alternative practices of accounting, including recognition, disclosure of financial statements, financial reporting, cost accounting, and auditing and taxation system in a local as well as international socio-economic domain.
3. Create awareness of the international, regional and local issues related to accounting and finance and the related role of financial players.
4. Inculcate a critical thinking process of actively conceptualizing, applying, analyzing, synthesizing, and evaluating information gathered from, or generated by, observation, experience, reasoning, as a guide to action.
5. Integrate research-related skills through research projects of current relevance.
6. Develop scientific reasoning in accounting and finance to arrive at analytical outcomes.
7. Use modern tools to create, select, and apply appropriate techniques, resources, modern statistical tools & software for accounting and finance studies.
8. Develop learning curiosity in accounting and finance studies to gain knowledge and explore information to make sound decisions.
9. Inculcate moral and ethical values in learners.



MASTER OF COMMERCE (ADVANCED ACCOUNTANCY) PROGRAM OUTCOMES

Students who complete M. COM program will be able to:

1. Acquire knowledge and skills to face the challenges of the 21st Century
2. Develop competency for making effective decisions
3. Analyze accounting and financial records
4. Evaluate important aspects based on accounting and costing in the field of accounting and finance in domestic and international market
5. Understand the basic concepts used in financial reporting standards, various accounting standards involved in business transactions
6. Develop advanced theoretical knowledge and research capabilities in their preparation for academic and research focused careers





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MASTER OF COMMERCE (BUSINESS MANAGEMENT) PROGRAM OUTCOMES

1. Learners will develop in depth knowledge in different functional areas of management.
2. Learners are prepared to take up further studies in areas of their interest.
3. Learners are well versed with latest trends in fields of HRM, Retail management etc.
4. Learners are equipped with skills to face challenges in the corporate world.

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BACHELOR OF MANAGEMENT STUDIES PROGRAM OUTCOMES

Students who complete BMS program will be able to:

1. Develop basic understanding of management education and practices that can be applied in present day global scenario.
2. Gain knowledge and skills to exploit opportunities in management profession.
3. Appreciate the interrelationships among functional areas of management.
4. Understand the importance of multicultural, ethnic, ethical and gender issues in the organization
5. Demonstrate professionalism, self-awareness, and effective communication skills.
6. Exhibit leadership capacity and teamwork skills that enable them to work effectively in groups
7. Develop comprehensive analytical and problem-solving skills.
8. Have innovation skills and ability to take up entrepreneurship initiatives
9. Understand the ethical implication of business decision making
10. Apply their knowledge in the field of business management to contribute to nation building while upholding ethical practices.



BACHELOR OF SCIENCE PROGRAM OUTCOMES

After completing a BSc Program, a learner will be able to

1. Apply the concepts learned to real life situations.
2. Employ critical thinking and the scientific method to design, implement, record and analyze results of different experiments.
3. Implement solutions to problems encountered in industries and in everyday life.
4. Bring about innovations so as to enhance the quality of lives.
5. Infuse in the learner a spirit of inquiry into the fundamental aspects of the various core areas of Chemistry.
6. Make the learner proficient in analysing the various observations and chemical phenomena presented to him during the course.
7. Make the learner capable of solving problems in the various units of this course
8. Give the learner an opportunity to get hands on experience of the various concepts and processes in the various branches of chemistry
9. Impart various skills of handling chemicals, reagents, apparatus, instruments and the care and safety aspects involved in such handling
10. Make the learner capable of analysing and interpreting results of the experiments he conducts or performs
11. Make the learner capable of acquiring or pursuing a source of livelihood like jobs in chemical industry
12. Arouse the interest to pursue higher levels of learning in chemistry





BACHELOR OF SCIENCE (COMPUTER SCIENCE) PROGRAM OUTCOMES

B. Sc. Computer Science students will be able to:

1. Analyse a problem, and identify and define the computing requirements appropriate to its solution. An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.
2. Function effectively on teams to accomplish a common goal. An understanding of professional, ethical, legal, security and social issues and responsibilities. An ability to communicate effectively with a wide range of audiences.
3. Use current techniques, skills, and tools necessary for computing practice.
4. Apply mathematical foundations, algorithmic principles, and computer science theory in the modelling and design of computer-based systems in a way that demonstrates comprehension of the trade-offs involved in design choices.
5. Apply design and development principles in the construction of software systems of varying complexity.





BACHELOR OF COMMERCE PROGRAM SPECIFIC OUTCOMES

1. The students will be able to understand the basic concepts of Final Accounts of Manufacturing Concern, Partnership Firms, Limited Liability Partnership and Private Limited Companies.
2. The students will be able to understand the concepts of Departmental Accounting, Hire Purchase Accounting, Consignment Accounting, Branch Accounting, Single Entry, Fire Insurance Claim, Piecemeal Distribution of Cash, Amalgamation of Firms, Conversion of Partnership Firms into Limited Company, Redemption of Preference Shares and Debentures, Treatment of Profit Prior to Incorporation, Personal Investment Accounting, Accounting of transactions involving Foreign currency, statement of underwriters liability.
3. The students will be able to Understand the basics of Auditing
4. The students will be able to understand the basics of Management Accounting including Financial Statement Analysis, Ratio Analysis, Pricing, Budgetary Control, Cost Allocation and performance evaluation.
5. The students will be able to understand the basic concepts related to Companies, its Final Accounts, Internal Reconstruction, Buy back of Shares, Amalgamation, Absorption and External Reconstruction and liquidation of company.
6. The students will be able to Understand the basic concepts of Cost accounting including Material, Labour and Overhead Costing.
7. The students will be able to Understand cost recording systems and different types of costing viz. Contract costing, process costing, standard costing and marginal costing,
8. The students will be able to Understand the basic concepts of Income Tax and Goods and Service Tax





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**BACHELOR OF COMMERCE (ACCOUNTING AND FINANCE)
PROGRAM SPECIFIC OUTCOMES**


A BAF graduate will be able to...

1. Apply techniques of recording and summarizing transactions; financial statements preparation, performance measurement, audit planning and control.
2. Practically apply provisions in Accounting and Finance to make managerial decisions to reach a valid conclusion.
3. Inculcate practical learning through research projects or internship in the area of accounting & finance.

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MASTER OF COMMERCE (ADVANCED ACCOUNTANCY)

PROGRAM SPECIFIC OUTCOMES

1. Understand the fundamental concepts of accounting practices in India and in International Market.
2. Gain advanced knowledge in the field of traditional and modern accounting practices.
3. Obtain knowledge and skills in the subject of Corporate Financial Reporting
4. Have analytical skills to critically evaluate the scope and importance of accounting information for making effective decisions.
5. Identify, analyze and solve the problems of various issues in accounting and finance through different tools and techniques.





MASTER OF COMMERCE (BUSINESS MANAGEMENT)

PROGRAM SPECIFIC OUTCOMES

1. Learners will develop managerial skills and theoretical knowledge for managing business units with special focus on functional areas of business and management.
2. Learners will develop Research skills in areas of Management
3. Learners will be motivated to take up Entrepreneurship
4. Learners will develop advanced level knowledge of concepts pertaining to various types of marketing.
5. Learners will have the capability to use ICT in a variety of learning situations and use a variety of relevant information sources.





BACHELOR OF MANAGEMENT STUDIES

PROGRAM SPECIFIC OUTCOMES

Finance:

Students who opt for specialization in finance will be able to

1. Learn the knowledge and skills that enable them to measure, analyze, interpret, and communicate economic data.
2. Acquire the broad-based business knowledge that enables them to integrate accounting practices to achieve strategic goals.
3. Acquire skills to use finance for growth and development process in the society
4. Familiarize themselves with financial concepts, analysis reporting systems and their practical applications.
5. Analyze the financial performance of an organization applying various tools that aid in decision making
6. Enhance their knowledge on various financial markets and services offered by various financial institutions
7. Understand significance of ethical practices in finance.

Human Resource:

Students who opt for specialization in human resource will be able to

1. Acquire knowledge of fundamental concepts of HR.
2. Understand the role of a HR Manager and their contribution to an organization
3. Gain in-depth understanding of various HR functions and their applicability in the organizations
4. Support good employee and labor relations in both non-union and union environments.
5. Research and analyze information needs and apply current and emerging information technologies to support the human resources function.
6. Develop skills catering to the needs of HR department in contemporary organization
7. Manage own professional development and provide leadership to others in the achievement of ongoing competence in human resources professional practice.
8. Understand significance of ethical practices in HR.





BACHELOR OF SCIENCE

PROGRAM SPECIFIC OUTCOMES

A Chemistry graduate will be able to...

1. Design, and execute experiments in Chemistry which demonstrate a good understanding of chemical principles.
2. Apply the rules of nomenclature and give proper names to new and existing compounds.
3. Relate the principles of Chemistry to the real world
4. Suggest and implement innovative solutions to problems in areas such as waste management, pollution, depletion of resources etc.

BACHELOR OF SCIENCE (COMPUTER SCIENCE) PROGRAM SPECIFIC OUTCOMES

B. Sc. computer science students at the end of three years will be able to:

1. Provide socially acceptable technical solutions to complex computer science problems with the application of modern and appropriate techniques for sustainable development relevant to professional practice.
2. Apply the knowledge of ethical and management principles required to work in a team as well as to lead a team.
3. Comprehend and write effective project reports in multidisciplinary environment in the context of changing technologies





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**BACHELOR OF COMMERCE
COURSE OUTCOMES**

F. Y. B. Com

SEMESTER I

SYLLABUS	OBJECTIVES	OUTCOME
Accountancy & Financial Management-I		
1: Accounting standards issued by ICAI and Inventory valuation 1. AS – 1: Disclosure of Accounting Policies 2. AS-2: Valuation of Inventories (Stock) 3. AS – 9: Revenue Recognition 4. Inventories 2: Final Accounts 1. Capital and Revenue: Expenditure and Receipts 2. Final accounts of Manufacturing concerns 3. 3: Departmental Accounts 1. Departmental Accounts 4: Accounting for Hire Purchase 1. Accounting for Hire Purchase	1. To introduce Indian Accounting viz; AS-1, AS-2 and AS-9 and to acquaint with methods of inventory valuation viz; FIFO and Weighted Average Method. 2. To understand the classification of capital and revenue – expenditure and receipts. 3. To introduce with Final Accounts of Manufacturing Concern 4. To introduce Departmental Accounting 5. To understand Hire Purchase Accounting and its application in business.	1. Students will get an insight into the AS-1, 2 and 9. Students will be able to solve practical problems on inventory valuation by FIFO and Weighted Average Method. 2. Students will be able to recognize capital and revenue – expenditure and receipts. Students will be able to solve practical problems regarding Final Accounts of Manufacturing Concern, 3. Students will be able to solve practical problems regarding Departmental Accounting 4. Students will be able to solve practical problems regarding Hire Purchase Accounting.
Commerce-I		
1. Business: Features, scope, objectives, new trends. 2. Business Environment: Components,	1. To Learn the scope of business 2. To gain knowledge of Business planning process 3. To Learn about problems and promotion of women	Upon completion, the student shall 1. Learn the scope of business and impact of internal and external environment on

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interface, Trading blocs, WTO 3. Project Planning: Steps in setting up a business, Legal provisions and documents, project report, feasibility study 4. Entrepreneurship: Intra and entrepreneur, Types, competences, Institutions for development, Women entrepreneurship	entrepreneurship 4. To be aware of importance of Service Sector in current times	business 2. Gain knowledge of Business planning process and aspects of feasibility and project report 3. Learn about problems and promotion of women entrepreneurship and get encouraged from study of entrepreneurship competencies and discover about Intrapreneur concept. 4. Be aware of importance of Service Sector with special focus on the retail sector, Business Process Outsourcing, net banking and E-commerce
Business Economics-I		
1. Scope and importance of B. Economics- 2. Demand analysis 3. Supply and production decisions 4. Cost concepts	1. By the end of this module, student should be able to understand the scope of Business Economics, have a good grip on concepts like opportunity cost, marginal analysis, basic economic relations, and equilibrium price in the market 2. Students should be able to understand Demand function, nature of demand curve under different markets, meaning, significance, types and measurement of elasticity of demand and relationship between elasticity of demand	1. Students are introduced to basic tools for economic analysis and know how they operate in case of an individual economic unit 2. Students are able to calculate, based on data, the impact of pricing decisions of individual firms on revenue and profit. 3. Students are able to appreciate the impact various output scale and input combination decisions made by the individual firms. 4. Students are able to understand the relationship between cost and output, recognize the economic impact of learning in the long run and calculate the

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	<p>and revenue concepts.</p> <p>3. Students learn about Production function, short Law of variable proportions, Isoquants, least cost combination of inputs, Laws of returns to scale, expansion path, Economies and diseconomies of scale and economies of scope.</p> <p>4. Students study Cost concepts, cost output relationship in the short run and long run, Learning curve and Breakeven analysis.</p>	<p>break-even out level for individual firms</p>
Business Communication-I		
<p>1) Theory of Communication</p> <p>a) Concept of communication</p> <p>b) Impact of technology enabled communication</p> <p>c) Communication at work place</p> <p>d) Business ethics</p> <p>e) Barriers to communication</p> <p>f) Listening</p> <p>2) Business Correspondence</p> <p>a) Theory of Business Letter Writing</p> <p>b) Personnel correspondence</p> <p>3) Language & Writing Skills</p> <p>a) Commercial terms used in business communication</p> <p>b) Paragraph writing</p>	<p>1. To develop awareness of the complexity of the communication process</p> <p>2. To develop effective listening skills in students so as to enable them to comprehend instructions and to become a critical listener.</p> <p>3. To develop effective oral skills so as to enable students to speak confidently interpersonally as well as in large groups.</p> <p>4. To develop effective writing skills so as to enable students to write in clear, concise, persuasive and audience centric manner.</p> <p>5. To demonstrate effective use of communication technology.</p>	<p>After successful completion of the course the learner should be able to enhance his Listening, Speaking, Reading and Writing skills to meet the challenges of the world.</p>

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c) Tutorial activities		
Environmental Studies-I		
Unit - I Environment and Ecosystem Unit – II Natural Resources and Sustainable Development Unit - III Population and Emerging Issues of Development Unit-IV Urbanisation And Environment Reading of Thematic Maps and Map Filling	1. To develop an in-depth understanding about the components of environment and functions of an Environment 2. To know different natural resources, utilization, degradation and their conservation. 3. To understand the concept of sustainable development. 4. To understand the relationship of man with environment 5. To provide knowledge about present and past population trends and issues. 6. To help the learner understand how population explosion is changing the environment. 7. To know about urbanization as a shift of human population with reasons. 8. To know the consequences of urbanisation on nature, society, and economic life. 9. To know environmentally significant features and places on world map 10. To provide knowledge for interpretation of the data given on map with the help of various	1. It will help to understand the complexities of our natural environment and relations between different components of environment. 2. Understands the seriousness behind conservation of resources and concepts related to sustainable development vis-à-vis improvement of quality of life. 3. Learners develop responsible environmental behavior and informed decision making and bring in changes in the attitude towards environment. 4. Students will understand the migration pattern of population in the world and its implications. 2) students will become aware about the various efforts taken 5. worldwide to solve the problems related to urbanization. 6. Students will be able to do investigative studies on various environmental issues related to geographical location of the place.

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	cartographic technique.	
Mathematical and Statistical Techniques-I		
Unit 1 Shares and Mutual Funds Unit 2 Permutation and combination and Linear programming problem Unit 3: Unit III: Summarization Measures: a. Measures of Central Tendencies: b. Measures of Dispersions Unit 4: Elementary Probability Theory	1. To study and to calculate gain and gain % for the investment in Shares or mutual fund, 2. To calculate NAV for SIP 3. To learn addition and multiplicative principle of counting, Permutation and combination 4. To find graphical solution of LPP 5. To study measures of central tendencies like Mean, Mode, Median, Quartile, decile, percentile and effect of deviations from these tendencies 6. To study concept of probability, it's application and distribution 7. To study various criteria fortaking decisions under different states of Nature: like a) decision under risk 8. and b) decision under uncertainty	1. Students will be able to understand concept of Shares and Mutual fund, able to determine profit, rate of interest etc for the investment. 2. Students will be able to apply counting principles like combination and permutation in various problems 3. Students will know how to determine optimal solution graphically 4. Students will be able to apply mean, mode, median, standard deviation etc. in different areas of commerce accounts and economics 5. Students will be able to calculate probability of basic real life problems 6. Students will be able to take optimal decision using Decision theory or linear programming
Foundation Course-I		
UNIT-I Overview of the Indian society and Indian culture. UNIT-II Disparity Part 1 with respect to stratification and inequality due to caste, class and estate system	1. The students are expected to understand the nature of diversity in the Indian society along with rural Urban and tribal characteristics. 2. Students are expected to	1. Students are made to understand the religious, linguistic and cultural diversity of the Indian society and its characteristics. 2. Students are able to describe the nature of inequality and

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and the problem of handicapped. UNIT-III Disparity part 2 casteism, communalism, linguism and regionalism. UNIT-IV The Indian Constitution Preamble, features and fundamental duties. UNIT-V local self-government Urban and rural.	learn the nature of stratification and inequality existing in the Indian society. 3. The students learn about various issues dividing society into certain categories. 4. Students learn about basic concepts of the Indian Constitution and its significance. 5. Student learn about the functioning of the local self-government in the rural and urban area.	its causes and consequences on the society. 3. Students are made to understand the nature of inequality caused due to these problems and find the solution. 4. Students are able to understand the nature of preamble, features of the constitution and significance of fundamental duties. 5. Students are able to understand working of the local self-government like municipal corporation, Z.P. Gram Panchayat etc.
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SEMESTER II


Accountancy & Financial Management-II

1: Accounting from Incomplete Records 2: Consignment Accounts 3: Branch Accounts 4: Fire Insurance Claim	1. To learn preparation of final accounts from incomplete records of sole proprietor. 2. To introduce the application of Consignment Accounts for the goods sold on consignment. 3. To introduce the concept of Branch specifically - Dependent Branch and its accounting systems. 4. To understand the need and importance of insurance and to enable the computation of fire insurance claim for the loss of stock by fire.	1. Students will be able to convert incomplete records into complete records to facilitate preparation of Final Accounts. 2. Students will be able to understand the concept and practical aspect of Consignment Accounts. 3. Students will be able to solve practical problems by Debtors System and Stock and Debtors System of Dependent Branch. 4. Students will be able to solve practical problems on fire insurance claim.
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Commerce-II

1. Concept of Services: Meaning, Characteristics, Scope and Classification of Services – Importance of service sector Services Mix, Service development cycle, 2. Retailing Concept of organized and unorganized retailing, Trends in retailing, Store format, Non – Store format, Store Planning, design and layout. Retail Scenario in India and Global context 3. Recent Trends in Service Sector, Concept and scope of BPO, KPO, LPO and ERP. Banking and insurance sector and logistics 4. E-Commerce: types, present status, e-transition, online marketing research	1. To Learn the scope of business 2. To gain knowledge of Business planning process 3. To Learn about problems and promotion of women entrepreneurship 4. To be aware of importance of Service Sector in current times	1. Learn the scope of business and impact of internal and external environment on business 2. Gain knowledge of Business planning process and aspects of feasibility and project report 3. Learn about problems and promotion of women entrepreneurship and get encouraged from study of entrepreneurship competencies and discover about Intrapreneur concept. 4. Be aware of importance of Service Sector with special focus on the retail sector, Business Process Outsourcing, net banking and E-commerce
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Business Economics-II

1. Market structure 2. Pricing and output decisions under imperfect competition 3. Pricing Practices 4. Evaluating capital projects	1. Students learn about perfect Competition and Monopoly as two different market structures and Profit maximizing decisions by firms under these markets 2. Students learn about Monopolistic competition and Oligopolistic markets and their key attributes, 3. Students are exposed to	1. Students are able to understand different market situations and assess the working of firms under these, in order to fashion their responses to maximize their advantage, both as a consumer and a prospective entrepreneur. 2. Students are now capable of distinguishing between different real life market
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	<p>cost oriented pricing methods like cost plus pricing, marginal cost pricing, mark up pricing, discriminatory pricing, multiple product pricing and transfer pricing. Case studies are provided to drive the point home.</p> <p>4. Students understand the meaning and importance of capital budgeting, steps in capital budgeting and the various technique of investment appraisal.</p>	<p>structures and understand the pricing, output and advertising decisions of firms. This must help them to become more rational consumers.</p> <p>3. Students are now able to understand the different pricing strategies adopted by firm in the market. This helps them to take appropriate consumption decisions. As prospective entrepreneurs, they now have an in depth idea as to how prices are fixed and profits are earned.</p> <p>4. Students are capable of evaluating the worth of prospective investment projects to choose the most rewarding one and are now able to carry out the investment project as he is exposed to the various steps and stages of capital budgeting.</p>
Business Communication-II		
<p>1. Group Communication</p> <p>a) Interviews</p> <p>b) Meetings</p> <p>c) Committees and Conferences</p> <p>d) Public Relations</p> <p>2. Business Correspondence</p> <p>a) Trade Letters</p> <p>3. Language and</p>	<p>1. To develop awareness of the complexity of the communication process.</p> <p>2. To develop effective listening skills in students so as to enable them to comprehend instructions and to become a critical listener.</p> <p>3. To develop effective oral</p>	<p>After successful completion of the course the learner should be able to enhance his Listening, Speaking, Reading and Writing skills to meet the challenges of the world.</p>

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Writing Skills a) Reports and Business Proposals b) Summarization c) Tutorial Activities	skills so as to enable students to speak confidently interpersonally as well as in large groups. 4. To develop effective writing skills so as to enable students to write in clear, concise, persuasive and audience centric manner	
Environmental Studies-II		
Unit-I Solid Waste Management for Sustainable Society Unit-II Agriculture and Industrial Development Unit-III Tourism and Environment Unit-IV Environmental Movements and Management Map Filling- Mumbai & Konkan	1. To know the types and sources of waste. 2. To know the effects of SW on environment and human health. 3. To know environmental problems associated with agriculture and industrial development. 4. To know sustainable agricultural and industrial practices as solution to preserve the environment. 5. To know typology of tourism, India's tourism policy and potential in this field. 6. To know the consequences of tourism on society, economy, environment etc. 7. To know about the several environmental movements taken place in India. 8. To know about the steps taken towards managing environment globally.	1. Students will understand the basis of classification of SW 2. Students will know how SW is affecting the environment and its resources with the help of few case studies. 3. Students will understand that how industries and agriculture too is affecting the natural environment. 4. Students will know about the sustainable way practicing agriculture and industrialization for the conservation of resources and protection of environment. 5. Students will know about India's potential in tourism sector and how the new tourism policy is helping in development of the same. 6. Students will understand the role of ecotourism in

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	<p>9. To know environmentally significant features in Mumbai and Konkan with the location to understand environmental</p> <p>10. problems in the region.</p>	<p>reducing the impact that comes with masstourism.</p> <p>7. Learners will take pride in knowing about the history of India in connection to environmental conservation. Learners will know that environmental management is necessary for environmental planning which implies the optimal utilization of resources and healthy growth of society.</p> <p>8. Students will be able to get information to develop a strategic overview of the environmental assets of the region.</p>
Mathematical and Statistical Techniques-II		
<p>Unit I : Functions, Derivatives and Their Applications</p> <p>a. Concept of real functions</p> <p>b. Derivative of functions</p> <p>Unit II: Interest and Annuity</p> <p>Unit III: Bivariate Linear Correlation and Regression</p> <p>Unit IV: Time series and Index Numbers</p> <p>Unit V: Elementary Probability Distributions</p> <p>a. Binomial Distribution</p>	<p>Unit I : Functions, Derivatives and Their Applications</p> <p>c. Concept of real functions</p> <p>d. Derivative of functions</p> <p>Unit II: Interest and Annuity</p> <p>Unit III: Bivariate Linear Correlation and Regression</p> <p>Unit IV : Time series and Index Numbers</p> <p>Unit V: Elementary Probability Distributions</p> <p>d. Binomial Distribution</p>	<p>1. Students will be able to use derivatives for solving various commercial problems</p> <p>2. Students will be able to calculate annuity, EMI and interest for their personal as well as real life investments.</p> <p>3. Students will be able to correlate different entities and are able to give a linear relation between those values</p> <p>4. Students will be able to apply concept of time series or index numbers to analyse a business.</p> <p>5. Students will have basic idea</p>

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b. Poisson Distribution c. Normal distribution	e. Poisson Distribution f. Normal distribution	of probability and its distributions
Foundation Course-II		
UNIT-I Globalisation, Liberalisation and privatisation. UNIT-II Human rights and fundamental rights. UNIT-III Environmental Problems. UNIT-IV Stress and conflict, aggression and violence. UNIT-V Management of stress and conflict.	1. By the end of this unit students are expected to understand the basic concepts of globalisation, liberalisation and privatization and its impact on agriculture and industry. 2. Students are expected to understand the origin, evolution and significance of basic human values along with fundamental rights given in the Indian constitution. 3. The students learn various issues regarding the environment such as pollution, ecology, sustainable development etc. 4. Students learn various causes of stress and conflict, aggression and violence in the society. 5. Students are expected to understand strategies to manage stress and conflict.	1. Students are able to understand the meaning of basic concepts related to globalisation and its impact on the Indian economy. 2. Students are made to understand the significance of basic human life and fundamental rights in the modern society. 3. Students are able to understand nature of environmental problems and their duty towards protection of the environment. 4. Students are able to explain the causes of stress, conflict, aggression and violence. 5. Students able to understand various techniques like Yoga, meditation, etc. as the tools to manage stress.

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**BACHELOR OF COMMERCE
COURSE OUTCOMES**

S. Y. B. Com

SEMESTER III		
Accountancy & Financial Management-III		
1. Partnership Final Accounts 2. Piecemeal Distribution of Cash 3. Amalgamation of Firms 4. Conversion of Partnership Firm into Private Limited Company	1. Students should be able to understand final accounts of partnership firm, its various adjustments arising due to admission, retirement and death of a partner and the process of 2. preparation of final accounts. 3. Students should be able to understand the order of payment on dissolution of a Firm 4. Students should be able to understand the concepts, objects and accounting of amalgamation of Firms and of conversion of partnership into a limited company.	1. Students will get the insight of Final Accounts of a partnership firm in which admission/retirement/death took place during the financial year 2. Students will get the insight of piecemeal distribution of cash on dissolution of cash. 3. Students will get the insight of amalgamation of Firms and conversion of partnership firm into limited company.
Commerce-III		
I – Introduction to Management, PODSCORB, Functions of mgt, skills, levels of mgt II – Planning & Decision making, MBO, steps in planning, components, techniques of decision making	1. To Get an insight into company management & Learn the basics of management functions 2. To Learn about the application of principles and techniques of management in the fields such as production and	1. Get an insight into principles practices and techniques of company management 2. Learn the basics of management functions applicable for effective management of a company 3. Learn about the application of principles





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III - Organizing- line and staff, organization as a structure, matrix structure, virtual organisation IV - Directing & Controlling, techniques, advantages and limitations	finance	and techniques of management in the fields such as production and finance 4. Study contemporary terms as well as trends in the field of production, quality control, inventory management and control as well as finance
Business Economics-III		
1. Introduction to macroeconomic 2. Basic concepts of Keynesian economics 3. Post-Keynesian economics 4. Money, Prices and Inflation	1. In this unit, students learn about various macroeconomics concepts such as national income, business cycle, the balance of payment, circular flow of national income, etc. 2. Students are expected to learn the application of Keynesian economics as the solution to various problems such as depression, unemployment, etc. 3. Students are expected to learn various concepts like stagflation, Phillips curve, supply side economics, etc. 4. Students learn about basic concepts of money supply, demand, inflation, etc.	1. Students are expected to understand the significance of the macroeconomic concept in national income accounting. 2. Students are able to explain use of Keynesian theory to provide a solution to the macroeconomic problems. 3. After studying this unit, students are able to understand development of Post-Keynesian economics. 4. Students are able to understand the connection between money supply and inflation.
Business Law-I		
1. Indian Contract Act- General Provisions-I 2. Indian Contract Act- General Provisions-II 3. Special Contracts	1. By the end of this module, student should be able to understand the scope of Business Law, have a good grip on concepts like,	1. Students are introduced to basic tools for understanding law and basic concepts of Contract Law.

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4. Sale of Goods Act,1932 5. Negotiable Instruments Act,1888	Consideration, Proposal. acceptance, Capacity of parties etc. The student must also be acquainted with technical words like void, voidable, void ab initio etc. 2. Students should be able to understand concepts like free consent, Void agreements E contracts, Quasi and Contingent contracts and discharge of Contract 3. Students learn about Contract of indemnity, guarantee, pledge, bailment and agency. 4. Students study contract of sale, rights of unpaid seller, Conditions and Warranties 5. Students study law of negotiable instruments, their liabilities, and parties. And also advantages and privileges of using Negotiable instruments	2. Students are able to analyse detailed provisions of how to make and terminate a contract legally in India. 3. Students are able to appreciate the application of contractual obligations in different practical situations 4. Students are able to understand specific application of Contract law in sale and purchase of Goods 5. Students are able to understand and appreciate application of contract law in Negotiable instruments
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Financial Accounting and Auditing V- Management Accounting

1. Introduction to Management Accounting 2. Ratio Analysis and Interpretation 3. Working Capital Management 4. Capital Budgeting	1. To understand various management accounting concepts. 2. To learn how accountants create, organize, interpret, and communicate information.	1. Identify problems associated with relying on financial accounting information for various managerial decision making. 2. Learns the application of management accounting tools for pricing, budgetary control, cost allocation and
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		performance evaluation.
Foundation Course-III		
<ol style="list-style-type: none"> Human Rights Violations Environmental Concern Science and Technology Soft skills for effective personal communication Project Work 	<ol style="list-style-type: none"> By the end of this module, students are acquainted and thorough with rights, liabilities and social context of various vulnerable groups in India such as SCs, STs, Women, Minorities etc. Students should be able to understand Disasters, various kinds and methods of Disaster management Students learn about development of science, relevance of science and technology in society and how to combat superstitions using scientific knowledge. Students understand basic concepts of communication and soft skill. Students have to do a project on poster presentation, PPT presentation or street play on any contemporary issues. They can do any other community outreach Program or even an interview with a famous scientist or a visit to a museum, science laboratory, orphanage old age home etc 	<ol style="list-style-type: none"> Students are introduced to basic reasons of Human Right Violations and their resistance, legally and constitutionally. Students are able to analyse situations which bring forth disasters and how to effectively manage them Students are able to appreciate the application of science and develop a scientific temper. Students are expected to have understanding of basic level communication skills Students get hands on experience to many issues which they are learning in class rooms.
Advertising-I		

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<ol style="list-style-type: none">1. Introduction to Advertising, IMC, evolution, classification of advertising2. Advertising Agencies: Features, Structure and services offered, Types of advertising agencies, Agency selection criteria, Agency and client relation, careers in advertising3. Economic and social aspects of advertising Effect of advertising on consumer demand, monopoly and competition, Price. Ethical issues, Social Advertising by Indian Government through Directorate of Advertising and Visual Publicity4. Brand building and special purpose advertising, AIDA Model, Role of advertising in developing Brand Image and Brand Equity, Trends in Advertising	<ol style="list-style-type: none">1. To Get an understanding of advertising as a tool of Integrated Marketing Communication.2. To Obtain knowledge about economic and social impact of advertising3. To Understand different types of advertising and role of advertising agency and mediums4. To Learn about techniques for effective construction of advertisements.	<ol style="list-style-type: none">1. Get an understanding of advertising as a tool of Integrated Marketing Communication.2. Obtain knowledge about economic and social impact of advertising and thereby ethical aspects in advertising3. Understand different types of advertising and role of advertising agency.4. Be aware of various mediums of advertising and understand its benefits and disadvantages.5. Learn about techniques of using and creating Copy, Slogan, headlines, illustrations and logo for effective construction of advertisements.
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Company Secretarial Practice-I

<p>I-Introduction to Company secretary, features, qualifications and qualities, rights and responsibility, appointment, career prospects</p> <p>II- Company Secretarial Practices, representative services, advisory services, secretarial audit, scope, process</p>	<ol style="list-style-type: none">1. To Learn about the role, duties, powers and responsibilities of company secretary in India2. To Get an insight into the management of companies & documentation and reporting aspects of company management	<ol style="list-style-type: none">1. Learn about the role, duties, powers and responsibilities of company secretary in India2. Get an insight into the management of companies, company meetings as well as procedural formalities in the formation of a company along with the role of a
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III- Company Formation and stages, Memorandum of Association, Articles of Association, Prospectus, Stages in Company formation and role of a secretary therein IV- Secretarial correspondence, correspondence with ROC, shareholders and other important stakeholders	3. To Understand the role of a company secretary in managing changes such as dematerialization, online trading	company secretary at different stages 3. Know about the documentation and reporting aspects of company management 4. Understand the role of a company secretary in managing changes such as 5. dematerialization,online trading
Travel & Tourism Management-I		
I- Introduction to tourism Historical perspective - Definition and Scope of Tourism, Motivation of Tourism, Importance of Tourism; Tourism development in India. II- Factors influencing tourism: physical, sociocultural, economic and political III- Infrastructure for tourism Need of Infrastructure and other ancillary services for tourism development-Role of transport and communication in the development of tourism, Accommodation Facilities, other supplementary services. IV- Impact of tourism Environmental, Socio-cultural, Economic - Positive and Negative Impacts. Need for Sustainable Tourism. Concept of Eco-tourism- Objectives; Its success and failure.	1. To understand the tourism concept, types and various aspects of tourism management 2. To Understand the role played by travel agencies and various tourism organizations	1. Understand the significance, influencing factors, infrastructure and socio economic impact of tourism 2. To understand various types of tourism 3. Understanding tourism management through aspects of planning, organizing and marketing tourism 4. Understand the role played by travel agencies and various tourism organizations

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Co-operation-I

1. Introduction, Meaning and definition of cooperation 2. Structure and organization of cooperation 3. Role of cooperative credit in India 4. Cooperative Banking in India	1. By the end of this module, student should be able to understand the salient features of cooperation, its principles and benefits 2. Students learn about the history of cooperation the various types of cooperative institutions working in our country including processing, marketing and other types of cooperatives 3. Students learn about the primary agricultural credit societies and Vaidyanathan committee report on restructuring rural credit 2004. 4. Students study about central and state cooperative banks as well as learn about the working of land Development Banks and Regional Rural Banks	1. Students are introduced to basic concept of cooperation and are able to understand the role of cooperation in the economic development of a mixed economy like India 2. Students are able to appreciate the role of various cooperative institutions and understand the problems faced by them. It should enable them to be better members of such societies as and when they join them. 3. Students are able to appreciate the impact of cooperative credit societies on agriculture and its impact on local communities. 4. Students are able to understand the efforts by the RBI and the Government to improve the working of rural credit
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Computer Programming-I

UNIT – I : HARDWARE:- Evolution of Computers – Generations, Types of Computers, Computer System, Characteristics, Basic Components of a Digital Computer – Control Unit, ALU, Input / Output, Functions and Memory, Memory Addressing Capability	1. To learn fundamentals of computers 2. To learn working with number system such as binary, decimal etc. 3. To gain the skills of structured (Procedural/Functional) programming using C language	1. Will induce programming capabilities in students. 2. Understand model, components of computer and how it works. 3. Understand the concept of input and output devices of Computers in detail. 4. Understand RAM, ROM and their types in detail.
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<p>of a CPU, Binary number system, Binary addition (1's complement, 2's Complement), Binary to decimal and Decimal to Binary Conversion, Octal Number, System, Word length of a computer, processing speed of a computer</p> <p>UNIT – II :</p> <p>SOFTWARE:- Software and Need, Types of Software – System Software, Application software, System Software – Operating System, Utility Program, Algorithms, Flow Charts – Symbols, Rules for making Flow chart, Programming languages, Assemblers, Compilers and Interpreter, Computer Applications in Business.</p> <p>UNIT – III :</p> <p>INTRODUCTION TO PROGRAMMING:- Structure of C program, Keywords, identifies, constants, variables, data types, type modifier, type conversion, types of operator and expressions, Input and Output functions in C (print(), scanf(), getchar(), putchar(), gets(), uts()). Storage class specifiers Header files(stdio.h, math.h, conop.j)</p>		
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<p>UNIT – IV :</p> <p>C – DECISION / LOOP</p> <p>STATEMENTS:- Decision statement – if-else statement, break, continue, goto, switch() case and nested if statement. Loop control statements – for(), while(), do-while loop() and nested loops.</p>		
SEMESTER IV		
Accountancy & Financial Management-IV		
<ol style="list-style-type: none">1. Introduction to Company Accounts2. Issue of Debentures3. Redemption of Preference Shares4. Redemption of Debentures5. Profit Prior to Incorporation	<ol style="list-style-type: none">1. Students should be able to understand meaning, types and formation of companies. Students should be able to understand accounting for issue of shares, forfeiture of shares and issue of bonus shares.2. Students should be able to understand the types of debentures, issue of debentures, accounting for issue of debentures and treatment of discount on debentures3. Students should be able to understand the concept of redemption of preference shares and debentures, methods of redemption, accounting procedure of redemption and preparation of balance sheet of the company after	<ol style="list-style-type: none">1. Students will get the insight of types of companies, issue and forfeiture of shares and debentures.2. Students will get the insight of Redemption of Preference shares and Debentures.3. Students will get the insight of ascertainment and treatment of profit prior to incorporation.4. Students will get the insight of redemption of preference shares and debentures, methods of redemption, accounting procedure of redemption and preparation of balance sheet of the company after redemption.5. Students will get an insight into principles for ascertainment and treatment of profit prior to

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	redemption. 4. Students should be able to understand the principles for ascertainment and treatment of profit prior to incorporation	incorporation
Commerce-IV		
I – Introduction to Production management, features, advantages, scope, productivity, factors influencing productivity, measurements II - Quality Management, components of quality, cost of quality, quality circle, kaizen technique, ISO 9000, Six sigma III – Introduction to Finance Management, structure of Indian financial market, stock exchange, SEBI, CRISIL and other credit rating agencies IV – Trends in finance management, mutual funds, commodity market, speculators, startup ventures, sources of funding for startup, microfinance	1. To Get an insight into company management & Learn the basics of management functions 2. To Learn about the application of principles and techniques of management in the fields such as production and finance	1. Get an insight into principles practices and techniques of company management 2. Learn the basics of management functions applicable for effective management of a company 3. Learn about the application of principles and techniques of management in the fields such as production and finance 4. Study contemporary terms as well as trends in the field of production, quality control, inventory management and control as well as finance
Business Economics-IV		
1. Role of government in an economy 2. Public revenue. 3. Public expenditure. 4. Fiscal management and financial management	1. In this unit, students learn about major fiscal functions such as allocation distribution and stabilization. 2. Students learn about sources of the revenue, tax	1. Students are expected to gain insight in understanding basic concepts of public finance. 2. Students are expected to understand basic

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	<p>burden and its effects.</p> <p>3. In this unit students learn about Cannons, effects and theories of public expenditure.</p> <p>4. Students are expected to learn the concept of fiscal policy, budget and their significance.</p>	<p>concepts about the taxation, tax burden and its effects.</p> <p>3. After studying this topic, students are expected to have knowledge about government expenditure.</p> <p>4. After studying this unit students are able to understand the implications of budget and Fiscal management</p>
Business Law-II		
<p>1. Company Law</p> <p>2. Corporate law</p> <p>3. IPR</p> <p>4. Partnership Law</p> <p>5. Consumer Protection and Competition Law</p>	<p>1. Students learn about Formation of Company, incorporation and basic doctrines, major documents in company etc</p> <p>2. Students learn how a company is run. Role of members, directors'etc.</p> <p>3. Students are exposed to the concept of Patent, Copyright and Trade mark</p> <p>4. Students understand the meaning and significance of Partnership and Limited Liability Partnership as different form of business organizations.</p> <p>5. Students are introduced to the concept of Consumer protection and redressal possibilities. They are given</p>	<p>1. Students are able to understand the significance and basic concept of company form of organizations.</p> <p>2. Students are now capable of understanding how far you need to be conscious, legally, while implementing various functions in a company</p> <p>3. Students are introduced to the market realities of Intellectual property Rights.</p> <p>4. Students are capable of evaluating their relative merits and demerits</p> <p>5. Students are capable of evaluating their rights and obligations as a consumer. Philosophy and significance of Competition</p>

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	clear ideas about the philosophy of competition law.	law
Financial Accounting and Auditing VI- Auditing		
1. Introduction to Auditing 2. Audit Planning, Procedures and Documentation 3. Auditing Techniques and Internal Audit Introduction 4. Auditing Techniques : Vouching & Verification	1. To Learn the fundamental aspects of Auditing. 2. To learn the process of vouching and verification	1. Discuss the need for an independent or external auditor. 2. Understands the financial audit process beginning with accepting client's till communication of result to the clients.
Foundation Course-IV		
1. Human Rights 2. Environmental Concern 3. Science and Technology 4. Preparation for competitive examination 5. Project Work	1. By the end of this module, students are acquainted and thorough with modern socio-legal concepts like Consumer Protection, RTI, PIL etc. 2. Students are introduced to various concept environmental studies and protection like, anthropocentrism, eco centrism, bio centrism, co-feminisms etc. 3. Students understand relevance of various technologies such as laser information technology, space technology etc. and its scientific base. 4. Students are introduced to basic soft skills and information about competitive examination 5. Students have to do a	1. Students are introduced to basic Human Rights Protection available to a new age citizens. 2. Students are expected to develop a sophisticated approach towards environment and concern for nature. 3. Students are able to appreciate the application of science and develop a scientific temper. 4. Students are expected to be have understanding of basic 5. level communication skills and general idea about competitive examinations which they can attempt. 6. Students get hands on experience to many issues which they are learning in

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	project on poster presentation, PPT presentation or street play on any contemporary issues. They can do any other community outreach Program or even an interview with a famous scientist or a visit to a museum, science laboratory, orphanage old age home etc	class rooms.
Advertising-II		
1. Media in Advertising: traditional media, new age media, media research 2. Planning Advertising Campaign-Steps Determining advertising objectives - DAGMAR model • Advertising Budgets, Media Scheduling Strategies 3. Fundamentals of Creativity in Advertising: Essentials of Copywriting, Copy – Elements, Types, Layout-Principles, Illustration - Importance 4. Execution and Evaluation of Advertising: Buying Motives - Types, Selling Points-Features, Appeals – Types, Concept of Unique Selling Proposition (USP) • Creativity through End or Semesterents: Execution	1. To Get an understanding of advertising as a tool of Integrated Marketing Communication. 2. To Obtain knowledge about economic and social impact of advertising 3. To Understand different types of advertising and role of advertising agency and mediums 4. To Learn about techniques for effective construction of advertisements.	1. Get an understanding of advertising as a tool of Integrated Marketing Communication. 2. Obtain knowledge about economic and social impact of advertising and thereby ethical aspects in advertising 3. Understand different types of advertising and role of advertising agency. 4. Be aware of various mediums of advertising and understand its benefits and disadvantages. 5. Learn about techniques of using and creating Copy, Slogan, headlines, illustrations and logo for effective construction of advertisements.

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Styles, Jingles and Music – Importance, Concept of Storyboard • Evaluation: Advertising copy, Pre-testing and Post-testing of Advertisements		
Company Secretarial Practice-II		
I – Management of company, CEO and role, Directors, types, role, auditors and their role, audit report II – Meetings of the company and secretarial duties, AGM, EOGM, Statutory meeting, notice, agenda, quorum, motion, resolution, minutes III – Dematerialization, history of demat, parties, NSDL, CDSL, role of a company secretary in DEMAT, IPO, listing of securities IV- Procedure for winding up of the company and secretarial duties, procedure and documentation, specimen writing	1. To Learn about the role, duties, powers and responsibilities of company secretary in India 2. To Get an insight into the management of companies & documentation and reporting aspects of company management 3. To Understand the role of a company secretary in managing changes such as dematerialization, online trading	1. Learn about the role, duties, powers and responsibilities of company secretary in India 2. Get an insight into the management of companies, company meetings as well as procedural formalities in the formation of a company along with the role of a company secretary at different stages 3. Know about the documentation and reporting aspects of company management 4. Understand the role of a company secretary in managing changes such as dematerialization, online trading
Travel & Tourism Management-II		
1. Planning and marketing of tourism Need for planning- Tourism planning process, assessment of carrying capacity of Tourism in the context of tourism –Role of private and public sector- Open Sky Policy. Marketing of tourism - Concept and	1. To understand the tourism concept, types and various aspects of tourism management 2. To Understand the role played by travel agencies and various tourism organizations	1. Understand the significance, influencing factors, infrastructure and socio economic impact of tourism 2. To understand various types of tourism 3. Understanding tourism management through

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<p>Definition-Element of Marketing –Market Segment- Sales techniques of Tourism Product.</p> <p>2. Travel agencies, Essentials of Travel Agency; Functions of Travel Agency and Tour Operator, Importance of TourOperator.</p> <p>3. Tourism Organizations IATA, PATA, WTO, ITDC and its Regional Offices; Role of state Tourism Development Corporations.</p> <p>4. Maharashtra Tourism Policy Social responsibility and Ethical concerns of Tourism; Growth of Coastal Tourism – With special reference to Konkan— Role of M.T.D.C. in the development of Tourism in</p> <p>5. Maharashtra.</p>		<p>aspects of planning, organizing and marketing tourism</p> <p>4. Understand the role played by travel agencies and various tourism organizations</p>
Co-operation-II		
<p>1. Cooperative Management Participation of state in cooperative movement</p> <p>2. Human Resource Development and Leadership in Cooperation</p> <p>3. Challenges to cooperative sector</p>	<p>1. Students learn about the administrative functions of cooperative department in this unit as also the functions and power of managing committee and the Secretary of the cooperative society</p> <p>2. In this unit students learn about the roles played by the government as well as</p>	<p>1. Students are able to understand the working of a cooperative society in detail. This is expected to make them useful member of a cooperative as well as efficient administrators of such societies as and when they take those responsibilities.</p> <p>2. Students are now capable</p>

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	<p>the RBI and NABARD in the growth of cooperative movement in India.</p> <p>3. Students are exposed to importance of HRD in cooperation and the training facilities available for developing the same. They also learn about the importance of leadership in cooperation the important qualities of good leader.</p> <p>4. Students learn about the challenges to cooperative movement in the era of globalization and the measures to strengthen them.</p>	<p>of distinguishing between different institutions and their roles in the development of cooperative movement in the country.</p> <p>3. Students are now able to understand the importance of leadership in cooperation and the various facilities available to develop the same.</p> <p>4. Students come across the challenges which the rural and cooperative movement faces in India today and are equipped to come out with innovative solution to these challenges with the help of the insightful understanding which they gain in the course of their study of this subject</p>
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Computer Programming-II

<p>UNIT – I :</p> <p>Computer Communication Systems</p> <p>:- The Internet, internet connections, ISO's Open system interconnection reference model, The TCP/IP stack, E-mail, Internet addresses, Internet Protocol, SMTP, MIME POP, IMAP, Domain Name system, Telnet, FTP, WWW, Browsers, HTML, http, JAVA,. Intranet, Intranet Services and their</p>	<p>1. To learn basic principles of using Windows operating system.</p> <p>2. Introduce students to the evolution of computer networks, its need, its types and the concepts data communication.</p> <p>3. Use spreadsheet software i.e. MS- Access for various operations on worksheet to solve basic information systems problems</p>	<p>1. Understand the concept of Data Communication, its Modes, its Forms and Data communication Channels.</p> <p>2. Understand evolution of internet, its application and its basic services.</p> <p>3. Recognize when to use each of the Microsoft Office programs to create professional and academic documents.</p>
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<p>advantages. Extranets. Search Engine and Web Crawlers</p> <p>UNIT – II :</p> <p>Principles Of DBMS:- What is a database, Relational databases (Relation, Attribute, Instance, Relationship, Join), Database capabilities (Data definition, data manipulation, Access as an RDBMs)</p> <p>UNIT – III :</p> <p>CASE STUDY OF DBMS USING MS-ACCESS:- MS-Office</p> <p>workspace basics, Exploring theOffice menu, Working with ribbon, Opening an access database Exploring database objects, Creating database, Changing views.</p> <p>Printing database objects. Saving and closing database file. Working with datasheets, Moving among records, Updating records, adding records to a table, Finding records, sorting records, Filtering records, Using the PIVOT chart View, Saving and closing tables. Adding a table to a database, Adding fields to a table, adding a Lookup field, setting a Primary key, Using the input mask wizard. Saving design changes, Importing data (From Excel).</p> <p>UNIT – IV :</p>		<p>4. Create and design a spreadsheet for general office use.</p> <p>5. Students will have a working knowledge of basic functions and formulas in MS-Access.</p>
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<p>MS-ACCESS QUERIES:-</p> <p>What is</p> <p>a Query, Creating a query, working with queries, saving and running a query, creating calculated fields, using aggregate functions, Understanding query properties, Joining Tables. What is a Form, Using the form tool, Creating a form with form wizard, Working in design view, Changing the form layout, Using calculated controls, Working with records on a Form. What is a report tool, Printing report, saving a report, designing a report, changing report layout, creating mailing labels.</p>		
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SEMESTER V		
Financial Accounting and Auditing VII- Financial Accounting		
1. Preparation of Final Accounts of Companies 2. Internal Reconstruction 3. Buy Back of Shares 4. Investment Accounting (w.r.t. Accounting Standard-13) 5. Ethical Behaviour and implications for Accountants	1. To understand the provisions for the preparation of Final Accounts as Companies Act 2. To understand the Company Law / Legal provisions related to internal reconstruction and buy back of shares as per Companies Act, 2013. 3. To get insight about personal investment accounting with ex and cum interest price and to understand ethical behaviour and its implications for Professional Accountants.	1. Students will be able to solve practical problems on Final Accounts of Companies 2. Students will be able to understand the provisions and to solve practical problems related to internal reconstruction 3. Students will be able to understand the provisions and to solve practical problems related to buy back of shares. 4. Students will be able to solve practical problems on personal investment accounting 5. Students will get a better understanding about ethical behaviour for Professional Accountants.
Financial Accounting and Auditing VIII- Cost Accounting		
1. Introduction to Cost Accounting 2. Material Cost 3. Labour Cost	1. Students should be able to understand the concept of cost accountancy, material cost, procurement	1. Students will get the insight of the concepts of cost accountancy, material

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4. Overheads 5. Classification of Cost and Cost Sheet 6. Reconciliation of Cost and Financial Accounts	procedures, inventory control, inventory accounting, attendance and payroll procedures, labour turnover, utilization of labour, efficiency rating procedures and remuneration systems and incentive schemes, classification of overheads, benefits of classification and allocation & apportionment of overheads and absorption of overheads. 2. Students should be able to understand the causes of disagreement between the profits as per financial accounts and cost accounts and the procedure of reconciliation.	cost and labour cost. 2. Students will get the insight of overheads, cost sheet and reconciliation of Profits as per financial accounts and cost accounts.
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Commerce V- M.H.R.M (Marketing)

I- Introduction to marketing, features, scope, evolution, investigative techniques in marketing- MR, MIS, data mining, CB, MS, market targeting patterns II- Marketing Mix -Marketing Decisions(I), elements of product mix, product life cycle, branding, brand equity, pricing techniques and objectives III- Marketing Mix -Marketing Decisions(II), physical distribution, factors influencing PD, traditional and	1. To Get holistic idea about the marketing activity of a business firm 2. To Learn about the psyche of consumer behavior 3. To Be equipped with latest tools and techniques of marketing	1. Get holistic idea about the evolution of marketing, contemporary trends in marketing and various marketing strategies (PPPP) to handle marketing activity of a business firm 2. Learn about the psyche of consumer behavior so as to handle them effectively 3. Be able to venture into the domain of marketing more confidently as he
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contemporary channels, supply chain management and components , IMC, sales management IV-Recent trends in Marketing, consumer organizations and role, challenges in marketing, rural marketing, skill set required for effective marketing, suitable examples		will be more quipped with latest tools and techniques of marketing
Business Economics-V		
1. Macro Economic overview of India 2. Agriculture during post reform period 3. Industry and service sector during post reform period 4. Banking and financial market	1. In this unit, students learn about the New Economic Policy of 1991, Social infrastructure: Education, Health and Family welfare in India and the Sustainable Development goals 2. Students learn about National Agricultural Policy 2000 and the Agricultural Pricing, Finance and Marketing policies followed since then. 3. Students are exposed to an overview of Indian Industrial sector. They learn about the Competition Act 2002, Disinvestment policy, MSME Sector, Industrial Pollution in India a also about Service sector, mainly rends in heath care and tourism industry.	1. Students are expected to be familiar with the process of reforms and the improvements in social and economic infrastructure, to enable them to understand and appreciate the ongoing policy changes. 2. Students are expected to be familiar with the agricultural scenario in the county including the crucial issues of pricing and marketing to form informed opinion 3. After studying this unit, students are to have an in depth knowledge of the secondary and tertiary sectors of the economy and the problems facing them 4. Students are expected to become effective and productive participants of the financial sector and

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	4. Students learn about the Banking and financial sector of the economy and gain in site in to Insurance Industry, Money market And Capital market.	the various employment opportunities offered by it.
Marketing Research		
1. Introduction to Marketing features, functions, significance of Marketing Research in marketing decision making, limitations of Marketing Research steps, MISConcept of Decision Support System-Components , importance Data Mining 2. Planning Research Research Design, questionnaire, sampling 3. Data Collection primary data, secondary data, integratingtechnology in data collection, 4. Data Processing, Analysis, Reporting Stages in Data processinguse of statistical tools, interpretation and report writing	1. To Understand significance of Marketing research 2. To get insight into process of conducting Marketing Research & Comprehend the application of marketing Research through emphasis onProduct, Brand,Sales, Consumer and advertising research. 3. To know about rural marketingresearch. 4. To be aware of organizing research activity in the business organisation	1. Understand significance of Marketing research and appreciate the difference between Marketing Information System and Marketing Research 2. Shall get insight into process of conducting Marketing Research with special focus on construct of Questionnaire, field survey, desk research, tabulation and analysis of data through statistical tools and reportwriting. 3. Comprehend the Application of marketing Research through emphasis on Product, Brand, Sales, Consumer andadvertising research. 4. Know about rural marketing research. 5. Be aware of organizing research through a separate department or professional agenciesand ethics to be followed in

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		conducting Marketing Research.
Export Marketing		
<p>I- Introduction to export marketing, features, advantages, scope, challenges, composition and direction of India's export since 2015</p> <p>II- Global Framework of export marketing, trade barriers, types, regional economic integration, trading blocks, WTO and role, major agreements of WTO</p> <p>India's framework of foreign trade, highlights and implications of FTP, Role of DGFT, Negative list, deemed exports</p> <p>IV-Export incentives and promotion, institutional measures, financial incentives and individual promotional incentives available to Indian exporter</p>	<ol style="list-style-type: none"> 1. To Get an insight into the field of global and Indian export marketing practices 2. To Learn about the procedural formalities & Know about the 3. Institutional structure, incentives and export promotion facilities initiated by the government 4. To Learn about marketing mix strategies including Product, Price, Promotion and physical distribution ineffective marketing of exportable goods 	<ol style="list-style-type: none"> 1. Get an insight into the field of global and Indian export marketing practices 2. Learn about the procedural formalities required for undertaking export activity in the country 3. Know about the institutional structure, incentives and export promotion facilities initiated by the government 4. Learn about marketing mix strategies including Product, Price, Promotion and physical distribution ineffective marketing of exportable goods
Direct and Indirect Taxation Paper – I		
<ol style="list-style-type: none"> 1. Basic Terms 2. Scope of Total Income & Residential Status 3. Heads of Income 4. Deduction from Total Income 5. Computation of Total Income for Individual 	<ol style="list-style-type: none"> 1. To learn fundamental aspects of direct taxation. 2. To understand the provisions and procedure to compute total income and tax payable by an individual 	<ol style="list-style-type: none"> 1. Define the procedure of direct tax assessment. 2. Able to file IT return on individual basis.
Computer Systems and Applications		
<p>Unit I</p> <p>Data Communication, Networking and Internet: (a) Data Communication</p>	<ol style="list-style-type: none"> 1. To Get complete knowledge about the Data Communication & Networking 	<ol style="list-style-type: none"> 1. Upon completion of the syllabus in the subject, the student shall 2. Get holistic idea about

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<p>Component, Data representation, Distributed processing. (b) Network Basics and Infrastructure</p> <p>Unit II</p> <p>Database and SQL a) Introduction to Databases, Relational and Non- relational database system MySQL as a Non-procedural Language. View of data. b) SQL Basics: Statements, inserting data, updating data, deleting data, expressions, built-in-functions, RENAME, SHOW, DESCRIBE, Simple Validity checking using CONSTRAINTS.</p> <p>Unit III</p> <p>Simple queries: The SELECT statement (From, Where, Group By, Having, Order By, Distinct, Filtering Data by using conditions. Simple and complex conditions using logical, arithmetic and relational operators (=, !=, <, >, AND, OR, NOT, LIKE, BETWEEN).</p> <p>Multi-table queries: Simple joins (INNER JOIN), SQL considerations for multi table queries (table aliases, qualified column names, all column selections self joins).</p> <p>e) Nested Queries, Simple Transaction illustrating START, COMMIT, and ROLLBACK.</p> <p>Unit IV</p>	<p>2. To Obtain knowledge about the Databases & SQL.</p> <p>3. To Be prepared with Queries and Statements for Handling Databases.</p> <p>4. To train the pupils in the application of computers in various technology such as Excel.</p>	<p>the process of Data Communication & networking</p> <p>3. Learn about the Queries with different types of relational databases.</p> <p>4. Learn about the different types of subqueries for data gathering.</p> <p>5. Be able to use techniques of spreadsheets for data processing.</p>
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Spreadsheet a) Creating and Navigating worksheets and adding information to worksheets b) Multiple Spreadsheets c) Functions d) Data Analysis		
SEMESTER VI		
Financial Accounting and Auditing IX- Financial Accounting		
1. AS – 14 - Amalgamation, Absorption & External Reconstruction (excluding inter- company holdings) 2. Accounting of Transactions of Foreign Currency 3. Liquidation of Companies 4. Underwriting of Shares & Debentures 5. Accounting for Limited Liability Partnership	1. To understand the accounting treatment related to Amalgamation, Absorption and External Reconstruction of Companies and computation of purchase consideration 2. To study the Accounting procedure related to transactions involving Foreign Currency. 3. To understand the provision and procedure related to liquidation of company, Underwriting of Shares & Debentures and Conversion of partnership firm into LLP.	1. Students will be able to calculate purchase consideration by various methods and solving practical problems based on Amalgamation, Absorption and External Reconstruction of Companies 2. Students will be able to compute and handle exchange rate difference arising out of transactions involving Foreign Currency. 3. Students will be able to solve practical problems based on liquidation of company 4. Students will be able to prepare statement of underwriter's liability 5. Preparation of Final Accounts of Limited Liability Partnership will be understood by the students.
Financial Accounting and Auditing X- Cost Accounting		
1. Cost Control Accounts	1. Students should be able to	1. Students will get the

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2. Contract Costing 3. Process Costing 4. Introduction to Marginal Costing 5. Introduction to Standard Costing 6. Some Emerging Concepts of Cost Accounting	understand the methods of keeping cost records and integrated accounting system 2. Students should be able to understand the concept of contract costing and process costing, treatment of work certified and work uncertified, calculation of profit on incomplete contract and work in progress, treatment of process losses, determination of process cost and treatment of by products and joint products. 3. Students should be able to understand the concept of marginal cost and standard costing, contribution, break even analysis and application of marginal costing in managerial decisionmaking. 4. Students should be able to understand target costing, life cycle costing, bench marking and ABC.	insight of cost recording systems. 2. Students will get the insight of contract costing and process costing. 3. Students will get the insight of standard costing and marginal costing. 4. Students will get the overview insight of target costing, life cycle costing, bench marking and ABC.
Commerce VI- M.H.R.M (HR Management)		
I- Introduction to HRM, features, advantages, strategic HRM, functions, HRP, steps in HRP II- Human Resource Development, functions, training and development, performance appraisal and techniques,	1. To Learn about the role of HR in the effective management of business organization 2. To Get an idea about contemporary practices in the field of HRM & challenges faced by HR	1. Learn about the invaluable role of HR in the effective management of business organization 2. Get an idea about contemporary practices in the field of HRM

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potential appraisal, counseling and mentor III -Human Relation, leadership, theories of leadership, motivation and theories of motivation, grievance redressal and techniques IV- Recent trends in HRM, Employee engagement, HRIS, challenges in HRM in recent times	manger in changing business environment in the millennium	3. Know about the nature of challenges faced by HR manger in changing business environment in themillennium
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Business Economics-VI

1. Introduction to international trade 2. Commercial Policy 3. Balance of Payment and International Economic Organization 4. Foreign ExchangeMarket	1. In this unit, students learn about theories of international trade, Terms of trade, Gains from trade, Offer curves and reciprocal demand 2. Students learn about the two essential trade policies of free trade and protection, about International economic Integration and about EU and Brexit. 3. In this unit students learn about BOP, its structure as well as aboutWTO, Recent developments in TRIPS, TRIMS, And GATS etc. 4. This unit teaches the students about Rate of Exchange, Purchasing Power Parity Theory, Spot and Forward Exchange Rate, Arbitrage Role of Central Bank in foreign exchange rate management	1. Students are expected to gain insight in to the various theories on trade. 2. Students are expected to be aware of the latest developments in international trade as well as gain knowledge on developments on Britain's relationship withthe rest of Europe. 3. After studying this topic, students are expected to have gained adequate knowledge regarding the India's external sector and how the WTO provisions have impacted in India 4. After studying this unit students are to have gained enough knowledge on the exchange rate determination so that
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	managed flexible exchange rate system of India.	they can become active participation in the market.
Marketing Research		
1. Applications of Marketing Research-I(Product; brand & price) 2. Applications of Marketing Research-II (Physical distribution, promotion and consumer research) 3. Applications of Marketing Research-III(Sales; rural marketing and global marketing research) 4. Managing Marketing Research: Marketing Research department, and professional agencies	1. To Understand significance of Marketing research 2. To get insight into process of conducting Marketing Research & Comprehend the application of marketing Research through emphasis on Product, Brand, Sales, Consumer and advertising research. 3. To know about rural marketing research. 4. To be aware of organizing research activity in the business organisation	1. Understand significance of Marketing research and appreciate the difference between Marketing Information System and Marketing Research 2. Shall get insight into process of conducting Marketing Research with special focus on construct of Questionnaire, field survey, desk research, tabulation and analysis of data through statistical tools and report writing. 3. Comprehend the Application of marketing Research through emphasis on Product, Brand, Sales, Consumer and advertising research. 4. Know about rural marketing research. 5. Be aware of organizing research through a separate department or professional agencies and ethics to be followed in conducting Marketing Research.
Export Marketing		
I-Export Finance, types of	1. To Get an insight into the	1. Get an insight into the

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<p>export finance, Institutional framework of export finance, Role of ECGC, EXIMbank</p> <p>II- Export Procedure, introduction stage and formalities, pre shipment, shipment and post shipment stage and formalities therein</p> <p>III- Export Pricing and Documentation, objectives of pricing, techniques of export pricing, practical problems in export pricing</p> <p>IV – Product planning decisions, Use of Marketing Mix in export marketing, Product mix, supply chain management, logistics management, use of promotion mix in export marketing</p>	<p>field of global and Indian export marketing practices</p> <p>2. To Learn about the procedural formalities & Know about the</p> <p>3. Institutional structure, incentives and export promotion facilities initiated by the government</p> <p>4. To Learn about marketing mix strategies including Product, Price, Promotion and physical distribution ineffective marketing of exportable goods</p>	<p>field of global and Indian export marketing practices</p> <p>2. Learn about the procedural formalities required for undertaking export activity in the country</p> <p>3. Know about the institutional structure, incentives and export promotion facilities initiated by the government</p> <p>4. Learn about marketing mix strategies including Product, Price, Promotion and physical distribution ineffective marketing of exportable goods</p>
Direct and Indirect Taxation Paper – II		
<p>1. Introduction</p> <p>2. Levy and Collection of Tax</p> <p>3. Time, Place and Value of Supply</p> <p>4. Input Tax Credit & Payment of Tax</p> <p>5. Registration under GST Law</p>	<p>1. To provide an overview of the basic structure of indirect taxes.</p> <p>2. To study the present indirect tax structure (GST).</p>	<p>1. Students should be able to analyze indirect taxes.</p> <p>2. Students should be able to calculate GST on various goods & services.</p>
Computer Systems and Applications		
<p>Unit I</p> <p>E - Commerce (a) Definition of E-commerce (b) Features of E-commerce (c) Types of E-commerce (d) Business Models in E- (e) Major B2C models (f) E-Commerce Security (g)</p>	<p>1. In this unit, students learn about theories of E-commerce</p> <p>2. To train the pupils in the application of computers Using Visual Basics.</p> <p>3. To Be prepared with</p>	<p>1. Students are expected to gain insight into the various theories on trade using E-commerce.</p> <p>2. Learn about the concept of designing and working for Visual Basics.</p>

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<p>Encryption: (h) Payment Systems (i) How an Online credit card transaction works. SET protocol. (j) Limitation of E-commerce. (k) M- commerce (Definition and Features). Unit II Visual Basic a) Introduction to Visual Basic b) Introduction to VB Controls Text boxes c) Variables, Constants, and Calculations Variable and Constant, Data Type d) Decision and Condition Unit-III Menus, Sub-procedures and Sub-functions, Defining/Creating and Modifying a Menu f) Lists, Loops and Printing List boxes and Combo Boxes Unit IV Spreadsheet a) Multiple Spreadsheets b) Functions c) Data Analysis</p>	<p>practices for handling spreadsheet.</p>	<p>3. Be able to use the techniques of spreadsheet for handling data studies.</p>
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**BACHELOR OF COMMERCE (ACCOUNTING AND FINANCE)
COURSE OUTCOMES**


F. Y. B. Com (Accounting and Finance)

SEMESTER I		
SYLLABUS	OBJECTIVES	OUTCOME
Financial Accounting - Elements of Financial Accounting-I		
<ul style="list-style-type: none">Accounting Standards Issued by ICAI and Inventory ValuationFinal AccountsDepartmental AccountsAccounting for Hire Purchase	<ul style="list-style-type: none">To instill knowledge about various accounting standardsTo understand the difference between Capital & Revenue itemsTo instill knowledge on how to prepare final accounts with respect to a manufacturerTo understand accounting with respect to various departments operated by a concernTo understand the concepts related to hire purchase transaction	<ul style="list-style-type: none">Get acquainted with the concept of accountings standards.Classify between Capital & Revenue itemsPrepare final accountsApportion the common expenses among all the departmentsProperly account for transactions in the books of Hirer & Hire Vendor
Cost Accounting - Introduction and Elements of Cost-I		
<ul style="list-style-type: none">Introduction to Cost AccountingMaterial CostLabour CostOverheads	<ul style="list-style-type: none">To enable the students, understand the concept of costTo know the methods by which expenditure on material is recordedTo enable students, understand the labour cost structure of the organization.To enable students, learn allocation and absorption of overheads	<ul style="list-style-type: none">Understand the concepts of costing and accounting procedures.Familiarize with the concepts and practicability of material costing.Acquire practical knowledge about cost structure of labour.Acquire practical knowledge about overhead accounting in production

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Financial Management -Introduction to Financial Management - I		
<ul style="list-style-type: none">• Introduction to Financial Management• Concepts in Valuation• Leverage• Types of Financing• Cost of capital	<ul style="list-style-type: none">• To Learn Basics of Financial Management, understanding its scope and importance of it.• To Understand Valuation concepts through understanding time value of Money, present value, Internal Rate Return, Bond Returns, The returns from Stock, Annuity, techniques of Discounting and Compounding.• To understand meaning, various types of Leverages and its uses.• To Understanding types, sources of Financing and way to calculate weighted average Cost of Capital	<ul style="list-style-type: none">• Know Basics of Financial Management, its scope and its importance• Understand Valuation concepts.• Understand meaning, various types of Leverages and its uses.• Understand types, sources of Financing and way to calculate weighted average Cost of Capital
Business Communication- I		
<ul style="list-style-type: none">• Theory of Communication• Obstacles to Communication in Business World• Business Correspondence• Language and Writing Skills	<ul style="list-style-type: none">• To understand the methods and modes of communication• To understand about the barriers to communication• To provide basic understanding of business correspondence• To develop language and writing skills	<ul style="list-style-type: none">• Foster good working relationships at their workplace• Overcome barriers to effective communication• Identify and apply suitable modes of communication
Foundation Course –I		

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<ul style="list-style-type: none">• Overview of Indian Society• Concept of Disparity• The Indian Constitution• Significant aspects of political process	<ul style="list-style-type: none">• To understand the multicultural diversity of Indian society• To understand the concept of disparity arising out of stratification and inequality• To understand the basics of Indian Constitution• To understand the political party system of India	<ul style="list-style-type: none">• Explain the demographic composition and rich diversity of India• Inculcate patriotism and values of tolerance, peace and harmony• Identify inequalities and issues faced by people with disabilities
Commerce-Business Environment - I		
<ul style="list-style-type: none">• Business and its Environment• Business and Society• Contemporary Issues• International Environment	<ul style="list-style-type: none">• To provide knowledge of the environment in which business operates.• To introduce various constituents of Business Environment.• To introduce Entrepreneurship to budding managers• To understand growing importance of good governance and CSR by organisations.• To provide knowledge of International Business Environment.	<ul style="list-style-type: none">• Examine how various elements of environment impact business.• Understand and use the SWOT framework to analyse business.• understand significance of ethical practices in business,• Identify the responsibilities of business towards various stakeholders.• Understand the strategies for going global.
Business Economics - I		
<ul style="list-style-type: none">• Introduction• Demand Analysis• Supply and Production Decisions and Cost of Production• Market structure: Perfect competition and Monopoly and Pricing and Output	<ul style="list-style-type: none">• To stimulate the student's interest by showing the relevance and use of various economic theories.• To make students aware of demand function and demand estimation and forecasting	<ul style="list-style-type: none">• Develop the ability to explain the core economic terms, concepts and theories• Use critical thinking skills within the discipline of economics about economic matters.• Become well trained

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Decisions under Imperfect Competition • Pricing Practices	<ul style="list-style-type: none">To acquaint learners about production function and cost conceptsTo compare and contrast common market structures, including perfect competition and monopolyTo make aware of different pricing methods	professionals with inter and multi-disciplinary skills for applied economic analysis
SEMESTER II		
Financial Accounting -Special Accounting Areas - II		
<ul style="list-style-type: none">Accounting from Incomplete RecordsConsignment AccountsBranch AccountsFire Insurance Claims	<ul style="list-style-type: none">To enable them to prepare and present financial statements in case of special accounting areas.To learn the concept of Accounting for Consignment transactions.To enable learners to prepare branch accounts under debtors and stock and debtors method of accountingTo help the learners to calculate the claims to be submitted to Insurance Company in case of fire	<ul style="list-style-type: none">Prepare final accounts of sole trading concerns from incomplete records.Prepare consignment accounts.Prepare branch accounts under debtors and stock and debtors method of accounting.calculate fire insurance claim regarding goods lost by fire
Auditing -Introduction and Planning - I		
<ul style="list-style-type: none">Introduction to AuditingAudit Planning, Procedures and DocumentationAuditing TechniquesInternal Audit	<ul style="list-style-type: none">To understand the basics of Auditing.To help learners know errors and frauds and its detectionsTo help learners understand Audit Plan, Audit techniques and types of Audit.To understands the Internal	<ul style="list-style-type: none">Understand the basic concepts of AuditingUnderstand the concept of errors and frauds, principles of audit and types of audit.Plan audit program and, maintain working papers and audit note book.

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	Audit and its techniques.	<ul style="list-style-type: none">Understand techniques of auditing. Internal audit, planning, procedures and documentation
Innovative Financial Services		
<ul style="list-style-type: none">Introduction to Traditional Financial ServicesIssue Management and SecuritizationFinancial Services and its MechanismConsumer Finance and Credit Rating	<ul style="list-style-type: none">To familiarize the learners with the fundamental aspects of various issues associated with financial servicesTo give a comprehensive overview of emerging financial services in the light of globalizationTo introduce the basic concepts, functions, process, techniques and create an awareness of the role, functions and functioning of financial servicesTo make them understand the importance of consumer finance and credit rating	<ul style="list-style-type: none">Explain the relevance of financial services to the individual.Demonstrate an awareness of the current structure and regulation of the Indian financial services sector.
Business Communication - II		
<ul style="list-style-type: none">Presentation SkillsGroup CommunicationBusiness CorrespondenceLanguage and Writing Skills	<ul style="list-style-type: none">To study how to make effective presentation during business meetings etcTo be trained in group CommunicationsTo apply appropriate communication skills across settings, purposes, and audiences.To prepare different types of reports	<ul style="list-style-type: none">Communicate effectively in variety of organizational settingsParticipate effectively in groups with emphasis on listening, critical and reflective thinkingDemonstrate a good understanding of effective business writing
Foundation Course – II		
<ul style="list-style-type: none">Globalisation and Indian Society	<ul style="list-style-type: none">To gain knowledge about LPG	<ul style="list-style-type: none">Explain the effect of globalization on Indian

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<ul style="list-style-type: none">Human RightsEcologyUnderstanding Stress and ConflictManaging Stress and Conflict in Contemporary Society	<ul style="list-style-type: none">To know about Human Rights constituents with special reference to Fundamental Rights stated in the ConstitutionTo understand concepts of environment, ecology and their interconnectednessTo learn about the causes of stress and conflicts and how to manage the same	<p>Industry</p> <ul style="list-style-type: none">Protect and promote human rightsManage stress effectively
Business Law -Business Regulatory Framework - I		
<ul style="list-style-type: none">Law of Contract 1872Sale of Goods Act 1930Negotiable Instrument Act 1881Consumer Protection Act 1986	<ul style="list-style-type: none">To Understand Law for Contracts in India and Special Circumstances mentioned in Contracts.To understand Provisions relating to Goods and Sales how it is supposed to be made in India, rights of buyer and seller.To understanding various conditions and requirements of Negotiable Instruments in India.To create awareness of various rights of consumers.	<ul style="list-style-type: none">Define, distinguish and apply the basic concepts and terminology of the law of contract;Understand the laws related to the Sales of Goods Act, 1930Have basic understanding of Negotiable InstrumentsDevelop an understanding of consumer rights and Consumer Protection Act.
Business Mathematics		
<ul style="list-style-type: none">Ratio, Proportion and PercentageProfit and LossInterest and AnnuityShares and Mutual Fund	<ul style="list-style-type: none">To understand the calculation pertaining to ratio, proportion and percentageTo understand the calculation of profit or loss considering trade discount and cash discountTo understand the concepts of simple and compound	<ul style="list-style-type: none">Calculate ratios, proportion and percentageCalculate profit and loss giving adjustment for discountsHave knowledge about how to calculate interestKnow how NAV and market price is calculated

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	<p>interest</p> <ul style="list-style-type: none">• To understand the calculations of market price and NAV with respect to shares and mutual funds respectively	
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COURSE OUTCOMES**

S. Y. B. Com (Accounting and Finance)

SEMESTER III		
SYLLABUS	OBJECTIVES	OUTCOME
Direct Taxes – I		
<ul style="list-style-type: none">Definitions u/s – 2 , Basis of Charge and Exclusions from Total IncomeHeads of IncomeDeductions under Chapter VI – AComputation of Total Income	Learners should be able <ul style="list-style-type: none">To understand the basics of taxationTo learn Taxability of incomes under different headsTo be aware of the deductions available in Income TaxTo have knowledge of Computation of Taxable income	Upon successful completion of this course learners will be able to <ul style="list-style-type: none">Determine their residential status and total incomeClassify incomes under different headsAbility to calculate exemptions and deductionsObtain basic understanding of tax planning
Financial Accounting (Special Accounting Areas) – III		
<ul style="list-style-type: none">Partnership Final Accounts based on Adjustment of Admission or Retirement / Death of a Partner during the YearPiecemeal Distribution of CashAmalgamation of FirmsConversion / Sale of a Partnership Firm into a Ltd. CompanyAccounting of Transactions of Foreign Currency	<ul style="list-style-type: none">To understand the accounting rules related to Partnership.To understand Provisions relating to distribution of funds on Liquidation of partnership firm.To understand provision relating to Amalgamation of Partnership Firms.To understand provisions and rules relating to Conversion / Sale of a partnership firm into a Ltd company.To understand Computation and treatment of exchange rate differences.	Upon successful completion of this course learners will be able to <ul style="list-style-type: none">Gain Ability to finalise accounts of partnership firm and determine the treatment in case of Admission /Retirement of PartnerGain ability to distribute funds during liquidation of partnership firmGain ability to pass entries on amalgamationGain ability to calculate the impact of Foreign exchange Transmission and translation
Information Technology in Accountancy – I		





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<ul style="list-style-type: none">• Introduction to Computers• Office Productivity Tools• Web• Introduction to Internet and other emerging technologies• Electronic Commerce	<ul style="list-style-type: none">• To understand basics of Computers hardware and Software• To understand various useful office productivity tools and its applications• To Understand how Web works and gets connected• To Understand meaning and applications of E-Commerce	<p>Upon successful completion of this course learners will be able to</p> <ul style="list-style-type: none">• gain ability to identify the hardware and software components of computer thus gaining ability to operate a computer device• develop basic working knowledge to use Excel, Word and PowerPoint• gain ability to use Websites and Connecting to internet understanding the connectivity structure• Identify and gain ability to transact on a E-commerce platform
Cost Accounting (Methods of Costing) – II		
<ul style="list-style-type: none">• Classification of Costs And Cost Sheets• Reconciliation of Cost and Financial Accounts• Contract Costing• Process Costing	<ul style="list-style-type: none">• To Understand how to classify various expenses under different heads of expenses• To learn how to reconcile differences between Costing and Financial Books.• To learn to prepare and present job costing statement in regards to contract job and ascertainment of profitability and profit treatment• To learn to prepare and present job costing statement in regards to Process job and ascertainment of profitability when product passes through distinct stage of operation.	<p>Upon successful completion of this course learners will be able to</p> <ul style="list-style-type: none">• classify various expenses under different heads of expenses and prepare cost sheet.• Able to find out differences between cost and financial books.• Apply calculation of pricing of large size contract by contract costing and to solve practical problems.• Apply technique of determination of price at the time of running manufacturing process by process costing in practical manner.

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Foundation Course in Commerce (Financial Market Operations) – III		
<ul style="list-style-type: none">• An Overview of the Financial System• Financial markets• Financial instruments• Financial services	<ul style="list-style-type: none">• To Get an overview of financial system• To Learn about financial market• To Learn about different financial instruments• To Have knowledge of financial services	<p>Upon successful completion of this course learners will be able to</p> <ul style="list-style-type: none">• Know about concepts of inflation and interest• Describe the structure of financial market in India• Describe the characteristics of different financial instruments• Explain in detail about features of various financial services
Business Economics		
<ul style="list-style-type: none">• Overview of Macroeconomics• Money, prices and Inflation• Introduction to Public Finance• Public revenue, Public Expenditure and Debt• Fiscal Management and Financial Administration	<ul style="list-style-type: none">• To make aware about the various Macro economics concepts.• To understand Supply and Demand of money along with inflation• To enable to understand Fiscal policy in details• To give insights about international trade and issues related to it	<p>Upon successful completion of this course learners will be able to</p> <ul style="list-style-type: none">• discuss scope and importance of Macroeconomics, Circular flow of aggregate income and expenditure, the measurement of national product, Short run economic fluctuations and The Keynesian Principle of Effective Demand.• recall and discuss the concept of Money Supply, demand for money, Quantity theory of money - Fisher's equation of exchange - Cambridge cash balance approach Nature of inflation in a developing economy and Monetary policy.• realize the role of a

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Government to provide Public goods, Fiscal Policy, Instruments of Fiscal policy and Union budget structure.

- recognize the basis of International Trade Foreign Portfolio Investment, Foreign Direct Investment Role of Multinational Corporations, Balance of Payments, Foreign Exchange and Foreign Exchange Market.

Business Law (Business Regulatory Framework) - I

1. The Indian Partnership Act – 1932
2. Limited Liability Partnership Act – 2008
3. Factories Act – 1948

- To understand concepts related to Partnership, Registration and effects of non-registration of Partnership, Rights and Duties of Partners.
- To understand provisions relating to Authority and Liability of partners, Admission, Retirement and Expulsion.
- To understand the various Concepts related to Formation, Membership, and Functioning of Limited Liability Partnership
- To study the various definitions, Health, Safety, Welfare measures related to Factories

- Gain knowledge on how to analyse the partnership deed.
- Gain skills to apply provisions of Partnership Act related to Admission, Retirement and Death of partners.
- Identify and discuss provisions of Factories Act.
- Identify and discuss differences between partnership and a LLP Agreement.


SEMESTER IV

Information Technology in Accountancy – II

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<ul style="list-style-type: none">• Business Process• Computerized accounting system• Concept of MIS Reports in Computer Environment• IT and Auditing	<ul style="list-style-type: none">• To understand Role of Information technology in Business Process management• To understand various Computerized Accounting Systems and understand how Tally software works• To gain Understanding of how MIS works and impact of Computerised environment on implementation of MIS• To be aware of how Audit is done in Computerised environment along with understanding basics of IT Auditing	Upon successful completion of this course learners will be able to <ul style="list-style-type: none">• know various business processes and ways to make use of technology to perform Business Process Management• Learn basics of Tally and other Computerised Accounting System.• Make use of various shortcuts while using tally software• gain ability to recognise various types of MIS reports and its usability at various stages of operations and management• Provide Exposure to Auditing in Computerised Environment
Direct Taxes- II		
<ul style="list-style-type: none">• Clubbing of Income• Set Off & Carry Forward of Losses• Computation of Tax liability of Individual & HUF• Computation of Income of Partnership Firm in Relation to Sec: 40(b) & Tax Thereon With Applicable Rate of Tax• Return of Income – Sec 139• Deduction at Source Advance Tax Interest Payable• DTAA U/S 90 & 91• Tax Planning & Ethics in	<ul style="list-style-type: none">• To understand the special provisions related to clubbing of income, set off and carry forward of losses, DTAA agreements.• To understand the taxation provisions related to Individual, HUF and partnership firm.• To know the various types of returns.• To understand the scheme relating to Advance Tax, TDS and calculation of interest thereon.	Upon successful completion of this course learners will be able to <ul style="list-style-type: none">• Gain ability to compute tax liability of various persons.• apply the provisions of clubbing set off and carry forward while calculating taxable income• Gain ability to identify the returns applicable to various person and the due dates.• Gain ability to compute the taxation of doubly taxed incomes.

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Taxation	<ul style="list-style-type: none">To understand the differences between tax planning, tax evasion and tax avoidance.	<ul style="list-style-type: none">gain understanding of the various due dates of advance tax and TDS related to payment and return filing and calculate interest thereon.
Research Methodology in Accounting and Finance		
<ul style="list-style-type: none">Introduction to ResearchResearch Design in Accounting and FinanceData Collection and ProcessingInterpretation and Report Writing	<ul style="list-style-type: none">To understand basic concepts of researchTo identify the overall process of designing a research studyTo know the steps in the process of data collectionTo develop contents and organization of written report	<p>Upon successful completion of this course learners will be able to</p> <ul style="list-style-type: none">apply research techniques in an appropriate manner for managerial decision makingIdentify the overall process of designing a research study from its inception to its report.Identify various sources of information for data collection.write a research report
Financial Accounting (Special Accounting Areas) - III		
<ul style="list-style-type: none">Preparation of Final Accounts of Companies.Redemption of Preference SharesRedemption of DebenturesAscertainment and Treatment of Profit Prior to IncorporationForeign Branch	<ul style="list-style-type: none">To understand Corporate accounting practices.To prepare and present financial statements of joint stock company according to company act 2013.To handle corporate financial counting reporting	<p>Upon successful completion of this course learners will be able to</p> <ul style="list-style-type: none">Apply formats of Company Final Accounts as per Indian Company's Act, 2013 in practical manner with notes to accounts.Understand provisions regarding redemption of preference shares as per Company's Act, 2013 and applying practically to solve practical problems.Understand various types of redemption of debentures and provisions regarding

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		<p>redemption of debentures.</p> <ul style="list-style-type: none">• find out profit (and its treatment in the books of account) before and after incorporation or registration of a firm in to company limited by shares.• Apply conversion of foreign currency into Indian currency when, to solve practical problems about foreign branches.
Business Law (Company Law) – III		
<ul style="list-style-type: none">• Definitions• Incorporation of companies• Public Offer• Private Placement• Share Capital and Debentures	<ul style="list-style-type: none">• To get acquainted with various definitions and concepts of Company Law.• To get acquainted with the provisions related to Incorporation of Companies• To understand the concept of Public Offer.• to understand the concept of Private Placement• To understand concept Shares and Debentures and understanding their provisions in Companies Act 2013	<p>Upon successful completion of this course learners will be able to</p> <ul style="list-style-type: none">• recall various definitions of Company Law and would be acquainted with the concepts of Different types of Companies and other important definitions.• be aware of various procedures involved in bringing a company into existence• understand relevance and importance of documents like MOA and AOA.• examine the circumstances in which companies could raise capital through Private placements• be acquainted with various types of shares and debentures issued by companies and their features

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Management Accounting (Introduction to Management Accounting)		
<ul style="list-style-type: none">• Introduction to Management Accounting• Analysis and Interpretation of Accounts• Financial Statement analysis: Ratio analysis• Cash Flow Analysis• Working Capital Management	<ul style="list-style-type: none">• To understand analysis and interpretation of Final accounts,• To understand the uses of ratio analysis,• To understand cash flow analysis• To understand the need for working capital management.	<p>Upon successful completion of this course learners will be able to</p> <ul style="list-style-type: none">• Understand the concept of management accounting.• understand the Analysis and interpret financial statements.• Calculate various ratios from the financial statements.• prepare Cash flow statements and its analysis.• prepare working capital statements.
Foundation Course in Management (Introduction to Management) – IV		
<ul style="list-style-type: none">• Introduction to Basic Management Concepts• Planning• Organising• Staffing• Directing and controlling	<ul style="list-style-type: none">• To Understand basic management concepts• To Understand the importance of planning• To Understand the Principles of organisation• To Understand Recruitment and its sources• To Develop knowledge about importance of directing and essentials of good control system	<ul style="list-style-type: none">• Describe what management is.• Explain the pros and cons of planning.• Describe difference between centralisation and decentralisation• Describe effective strategies for recruiting and selecting qualified job applicants.• Explain what control means in a business setting and why it is needed.

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BACHELOR OF COMMERCE (ACCOUNTING AND FINANCE) COURSE OUTCOMES

T. Y. B. Com (Accounting and Finance)

SEMESTER V		
SYLLABUS	OBJECTIVES	OUTCOME
Taxation – III (Indirect Taxes – I)		
<ul style="list-style-type: none"> • Introduction to Indirect Taxation and GST • Levy and Collection of Tax • Concept of Supply • Documentation • Input Tax Credit and Computation of GST • Registration under GST Laws 	<ul style="list-style-type: none"> • To provide an overview of the basic structure of Indirect taxes. • To study the present indirect tax structure(GST). • To understand concepts of supply • To know about tax invoices, debit and credit notes • To study the computation of GST 	<p>Upon successful completion of this course learners will be able to</p> <ul style="list-style-type: none"> • Understand basic structure of GST • Explain the concept of supply • Collect and submit documents as per legal requirements • calculate GST on various goods & services.
Cost Accounting – III		
<ul style="list-style-type: none"> • Uniform Costing and Inter-Firm Comparison • Integrated System and Non-Integrated System of Accounts • Operating Costing • Process Costing- Equivalent Units of Production and Interprocess Profit • Activity Based Costing System 	<ul style="list-style-type: none"> • To understand the concept of uniform costing • To understand the difference between integrated and non-integrated system • To study application of operating costing • To study the concept of equivalent units 	<p>Upon successful completion of this course learners will be able to</p> <ul style="list-style-type: none"> • Solve problems on uniform costing • Analyse integrated and non-integrated system of costing • Apply operating costing techniques in service sectors • Solve problems on Valuation of Work in progress and Equivalent production
Financial Management -II		





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<ul style="list-style-type: none">• Strategic Financial Management• Capital Budgeting – Project Planning & Risk Analysis• Capital Structure Theories and Dividend Decisions• Mutual Fund and Bond Valuation• Credit Management	<ul style="list-style-type: none">• To be aware of importance of financial planning• To understand capital budgeting in depth• To be aware of capital structure theories and dividend decisions• To understand in depth about mutual fund• To be aware of credit management	Upon successful completion of this course learners will be able to <ul style="list-style-type: none">• Design financial plan• Solve problems on capital budgeting• Use capital structure theories• Do valuation of mutual fund and bonds
International Finance		
<ul style="list-style-type: none">• Derivatives – Futures• Derivatives – Options• Foreign Exchange Markets and Dealings• Foreign Exchange Exposure and Risk Management	<ul style="list-style-type: none">• To understand concept of futures in detail• To understand concept of options• To understand foreign exchange market and dealing• To understand risk management	Upon successful completion of this course learners will be able to <ul style="list-style-type: none">• Compare futures and option• Understand the procedure of foreign exchange dealing• Explain concept of risk management in foreign exchange

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Financial Accounting - V		
<ul style="list-style-type: none">Underwriting of shares & debenturesBuy-Back of sharesAS - 14 - Amalgamation, Absorption & External Reconstruction (excluding inter - company holding)Internal ReconstructionLiquidation of Companies	<ul style="list-style-type: none">To understand concept of underwritingTo know about procedure of buyback of sharesTo solve problems related to amalgamationTo understand account procedure related to internal reconstructionTo understand Preparation of statement of affairs, deficit / surplus account Liquidator's final statement of accounts	Upon successful completion of this course learners will be able to <ul style="list-style-type: none">Solve problem related to underwritingUnderstand the procedure of buybackSolve problems related to amalgamationPrepare statement of affairs and liquidators final statement of accounts
Financial Accounting – VI		
<ul style="list-style-type: none">Final Accounts of Banking CompanyFinal Accounts of Insurance Company (Excl. Life Insurance)Non – Banking Financial CompaniesValuation of Goodwill and SharesAccounting for Limited Liability Partnership	<ul style="list-style-type: none">To understand preparation of final accounts of banking company and insurance companiesTo understand difference between NBFC and banking companyTo understand valuation of goodwill and sharesTo understand the accounting of LLP	Upon successful completion of this course learners will be able to <ul style="list-style-type: none">prepare financial statements of banking and insurance companiesexplain in depth about different NBFCscarry out valuation of goodwill and sharesanalyse accounting statements of LLP

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SEMESTER VI

Cost Accounting - IV

<ul style="list-style-type: none"> Budgeting and Budgetary Control Absorption Costing and Marginal Costing Cost Volume and Profit Analysis Managerial Decision Making Standard Costing and Variance Analysis 	<ul style="list-style-type: none"> To understand concept of budget To understand concept of CVP Analysis To understand the importance of managerial decision making To study concept of standard costing 	<p>Upon successful completion of this course learners will be able to</p> <ul style="list-style-type: none"> Prepare budget Apply CVP analysis Explain importance of good decision making Solve problem on standard costing
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Financial Management - III

<ul style="list-style-type: none"> Business Valuation Mergers and Acquisitions Corporate Restructuring and Takeovers Lease and Hire Purchase Financing Working Capital financing 	<ul style="list-style-type: none"> To understand concept of business valuation To study in depth about mergers and acquisition To solve problems on lease and hire purchase To understand concept of working capital 	<p>Upon successful completion of this course learners will be able to</p> <ul style="list-style-type: none"> Explain concept of business valuation Classify the types of mergers and acquisitions Solve problems of lease and hire purchase Apply knowledge of working capital financing
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Taxation - Paper V (Indirect Taxes – III)

<ul style="list-style-type: none"> Payment of Tax and Refunds Returns Accounts, Audit, Assessment and Records Custom Act - I Custom Act - II Foreign Trade Policy 	<ul style="list-style-type: none"> To study procedure of payment of tax and refund To understand Provisions relating to filing of Returns To study Levy of and exemptions from customs duties To study legislations governing FTP 	<p>Upon successful completion of this course learners will be able to</p> <ul style="list-style-type: none"> Calculate payment of tax File returns Explain concept of levy and exemption from custom duty Summarize legislation governing FTP
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Security Analysis and Portfolio Management

<ul style="list-style-type: none"> Portfolio Management – An Introduction & Process Portfolio Management – Valuation Fundamental Analysis Technical Analysis Efficient Market Theory & CAPM 	<ul style="list-style-type: none"> To understand process of portfolio management To understand in depth about valuation of portfolio To understand EIC To be aware of difference between fundamental analysis and technical analysis 	<p>Upon successful completion of this course learners will be able to</p> <ul style="list-style-type: none"> Do portfolio management Solve problem on portfolio evaluation Solve problem on ratio analysis Apply concept of CAPM
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Financial Accounting – VII

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<ul style="list-style-type: none">• Final Account for Electricity Company• Final Accounts for Co-Operative Society: (Co-Operative Housing Society and Consumer Co-Operative Society)• Investment Accounting (w.r.t. Accounting Standard - 13)• Mutual Fund Introduction to IFRS and Indian Accounting Standards	<ul style="list-style-type: none">• To study preparation of final account of electricity company and cooperative society• To understand investment accounting• To understand in depth of mutual funds• To study on IFRS and IAS	Upon successful completion of this course learners will be able to <ul style="list-style-type: none">• Prepare final accounts of electricity company• Prepare final accounts of cooperative accounts• To solve problems on investment accounting• Compare IFRS and IAS
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MASTER OF COMMERCE (ADVANCED ACCOUNTANCY)

COURSE OUTCOMES

MCOM PART I

Learning Outcomes

1. The students will be able to identify and analyse Cost concepts and understand managerial decision making
2. The students will be able to understand standard practices associated with Standard Costing and Variance analysis
3. The students will be able to prepare and present functional budgets at organizational level
4. The students will be able to identify and analyse practices associated with Operating costing

M.Com(Advanced Accountancy) Semester-II

Learning Outcomes

1. The students will be able to identify and analyse Cost concepts and understand managerial decision making
2. The students will be able to understand standard practices associated with Standard Costing and Variance analysis
3. The students will be able to prepare and present functional budgets at organizational level
4. The students will be able to identify and analyse practices associated with Operating costing

1) Course Name: **Advanced Cost Accounting**

- 1 To explain the concepts of process costing
2. To summarize the concept of cost allocation and ABC analysis
3. To define responsibility centers in company
4. To give knowledge about strategic cost management

Course outcomes:

- CO1. Learners will be able to understand process costing and techniques applied in industry
CO2. Learners will be able to identify various cost allocation methods and apply ABC method of costing system
CO3. Learners will be able to define responsibility center and evaluate performance of company
CO4. Learners will be able to under different techniques used in strategic cost management

2) Course Name: **Direct Tax and Indirect Tax [Goods and Service Tax]**

Aims & Objectives:

- 1 To explain the concepts of Indirect Tax in India i.e. GST.
2. To explain the concept of one point Taxation i.e. Uniformity of Tax.
3. To summarize the concept of Time, Place and Value of Supply.
4. To give knowledge about calculating GST liability.
5. To explain various provisions for registration under GST

Course outcomes:

- CO1. Learners will get an overview of GST, its need and applicability in India and Learners will understand the concept like Scope of Supply, Non-taxable Supply, Composition Scheme etc.
CO2. Learners will understand in detail about Time, Place and Value of Supply for computation of GST
CO3. Learners will have be able to calculate ITC, manner of utilization, assessment of tax liability and payment of GST

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CO4. Learners will understand the provisions of GST registration, its procedure, documents needed for registration, cancellation of registration, deemed registration.

3) Course Name: Corporate Finance

Aims & Objectives:

- 1) To enhance the abilities of learners to develop the objectives of Financial Management
- 2) To enable the learners to understand, develop and apply the techniques of investment in the financial decision making in the business corporates
- 3) To enhance the abilities of learners to analyses the financial statements

Course outcomes:

- CO1. The learners will be able to identify the scope of financial management in practice.
CO2. The learners will be able to conceptualize the concept of valuation of securities.
CO3. The learners will be able to explain the concepts of financial accounting in general.
CO4. The learners will be able to identify and undertake various managerial decisions required in day-to-day business practices

4) Course Name: RISK MANAGEMENT

Aims & Objectives:

- a) To outline the concept and fundamentals of risk management.
- b) To summarise various capital market and risk associated with it.
- c) To explain credit risk management process ,Basel norms and concept of CAR
- d) To acquaint learners about application of risk measurement tools.

Course outcomes:

- CO1. Learners will be able to identify risk and uncertainty in business and learn to compare them, review ERM , and various financial crisis
CO2. Learners would be able to summarise various capital markets operating in India and Associate relation to Derivatives Markets and risk associated with it.
CO3. Learners would be able to use credit risk management process, review Basel Norms and calculate CAR
CO4. Learners would gain practical approach on calculation of Beta and Linear VaR.

5)Course Name : Advanced Trends in Accounting - II

Aims & Objectives

1. To understand Financial Report and its Technicalities.
2. To know GST and its practicality.

Course outcomes:

- CO1. Learners will be able to prepare Financial report and do its analysis.
CO2. Learners will be able to activate GST masters in Tally and set up GST rate, Update Party GSTIN and updating GST in service ledger.





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MASTER OF COMMERCE (ADVANCED ACCOUNTANCY)
COURSE OUTCOMES
MCOM PART II

SEMESTER III		
Advanced Financial Accounting		
1. Foreign Currency Conversion 2. Final Accounts & Statutory Requirements for Banking Companies 3. Accounting & Statutory Requirements of Insurance Companies 4. Accounting & Statutory Requirements of Co-operative Societies	1. To gain knowledge of foreign currency conversion 2. To understand the Statutory requirements of Banking companies and have knowledge of preparation of their accounts. 3. To understand the statutory requirements of Insurance companies and have knowledge of preparation of their accounts 4. To understand the statutory requirements of Insurance companies and have knowledge of preparation of their accounts	1. Prepare final accounts of banking companies 2. Prepare final accounts of insurance companies following the statutory requirements 3. Prepare the final accounts of cooperative societies
Advanced Cost Accounting		
1. Process costing 2. Cost Allocation and Activity Based Costing Systems 3. Responsibility Accounting 4. Strategic Cost Management	1. To provide the students with an in-depth knowledge of advanced approaches of Cost Accounting. 2. To explain reasons for using Activity Based Costing instead of traditional method 3. To enable them to apply costing methods and techniques to assist	1. Identify and Assign Costs to Activities. 2. Apply costing methods and techniques appropriate to a variety of different businesses 3. Explain Strategic Cost Management and its importance





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व्ही.के. कृष्ण मेनन वाणिज्य व अर्थशास्त्र महाविद्यालय आणि शरद शंकर दिघे विज्ञान महाविद्यालय

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	management for taking appropriate decisions 4. To learn about transfer pricing, target costing and inflation accounting	
Direct Tax		
1. Definitions and Basis of Charge 2. Heads of Income 3. Deductions u/s 80 and Exclusions from the Total Income 4. Computation of Income and Tax of Individual, Firm and Company (Excluding MAT) and Provisions for Filing Return of Income - Sec139(1) and Sec 139(5)	1. To Understand the tax structure of the economy 2. To attain a practical understanding over different sections through case studies 3. To be aware of various deduction and exemption u/s 80 of Income Tax Act 4. To understand how to compute Income tax of various assesseees	1. Practice as a tax consultant in various areas under the IT ACT 2. Apply the provisions of income tax laws in calculating income of various assesseees 3. Explain the Deductions to be made in Computing Total Income
SEMESTER IV		
Corporate Financial Accounting		
1. Corporate Financial Reporting 2. International Financial Reporting Standards (IFRS) & Ind – AS 3. Valuation of Business for Amalgamation & Merger 4. Consolidated Financial Statement	1. To provide the student with knowledge of recent developments in corporate accounting 2. To learn about IFRS and Ind – AS 3. To know about valuation of business for merger and amalgamation 4. To study the procedure of consolidation of balance sheet and profit and loss account	1. Demonstrate knowledge of accounting standards and IFRS 2. Aware of various requirements of corporate reporting 3. Interpret consolidated financial reports
Indirect Tax- Introduction to Goods and Service Tax		
1. Overview of Goods and Service Tax	1. To gain information on applicability of GST on	1. Make use of knowledge of GST rules in taking

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<ol style="list-style-type: none">2. Registration under GST3. Collection of Tax under Integrated Goods and Services Tax Act, 20174. Place of supply of goods or services or both under Integrated Goods and Services Tax Act, 20175. Payment of GST	<ol style="list-style-type: none">various commodity and services2. To have knowledge about rules and procedure of registration under GST3. To know about collection of tax under GST4. To study about the procedure of payment of GST	<ol style="list-style-type: none">managerial decisions in various tax related matters2. Analyse and understand the implications of GST on your business.3. Know “place of supply rules” and applicability of the same under GST
Financial Management		
<ol style="list-style-type: none">1. Types of Financing2. Investment Decisions: Capital Budgeting3. Management of Working Capital4. Financial Planning5. Financial Policy and Corporate Strategy	<ol style="list-style-type: none">1. To demonstrate basic financial management knowledge2. To learn about capital budgeting3. To demonstrate the importance of working capital management and the tools to manage it4. To introduce students to financial planning, and objectives, and its benefits, and the types of areas and stages of financial planning, and the factors that help the success of financial planning.	<ol style="list-style-type: none">1. Decide form and amount of short term financing that best suits a given corporate need based on historical and projected analysis2. Select and apply techniques in managing working capital3. Apply the tools from financial management this would facilitate the decision making i.e. Capital Budgeting, Ratio Analysis.

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**MASTER OF COMMERCE (BUSINESS MANAGEMENT)
COURSE OUTCOMES
MCOM PART I**

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	market behaviour with economic way of thinking 7. To widen analytical ability of the students and to provide them a foundation for further study of economics 8. To discuss cases involving the use of concepts of businesseconomics	common market structures
Cost and Management Accounting		
5. Marginal costing, Absorption costing and Management decisions 6. Standard costing 7. Budgetary control 8. Operating costing	5. To enhance the abilities of learners to develop the concept of Cost and management accounting and its significance in the business 6. To enable the learners to understand, develop and apply the techniques of costing in the decision making in the business corporate 7. To enable the learners in understanding, developing, preparing and presenting the financial report in the business corporates 8. To understand the meaning and features of operating costing	4. Use Cost Accounting Methods to Optimize the Use of People, Resources, and Materials. 5. To analyze Reports to Make Sound Pricing Decisions. 6. Apply the Decision Making tools from Marginal Costing i.e. CVP, BEP
Business Ethics and Corporate Social Responsibility		
5. Introduction to Business ethics 6. Indian ethical practices and corporate governance 7. Introduction to	5. To familiarize the learners with the concept and relevance of Business Ethics in the modern era 6. To enable learners to understand the scope and	4. Acquire a set of skills and tools for evaluating ethical issues 5. Apply tools and ideas acquired during the course to practical CSR problems

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MASTER OF COMMERCE (BUSINESS MANAGEMENT)

COURSE OUTCOMES

MCOM PART I

M.Com(Business Management)-Semester -I

Program Outcomes

1. Learners will be able to achieve thematic knowledge based on concept clarity
2. Learners will be able to develop research understanding of subjects through latest trends and techniques coming in the field of commerce and management
3. Learners will be able to relate and apply learned knowledge in practical field
4. Learners can develop life skills through experiential learning

Learning Outcomes

1. Strategic Management subject study will prepare students to generalise the theory and can help them to put in practice
2. The Learning of SM subject can bring concept clarity, focused and deep understanding of SM applicable to organisations and can also motivate students to start their own start ups

1) Course Name: Strategic Management

Learning Objectives

- a) To enable the learners to understand new forms of Strategic Management concepts and their use in business
- b) The course would enable the students to understand the principles of strategy formulation, implementation and control in organizations
- c) To develop learning and analytical skills of the learners to enable them to solve cases and to provide strategic solutions
- d) To acquaint the learners with recent developments and trends in the business corporate world

Course Outcomes

- C1) Understand the basic concepts and process of strategic management
- C2) Develop and prepare organizational strategies that will be effective for today's organisations
- C3) Devise strategic approaches to managing a business successfully in a global context

2) Course Name: Human Resource Management

Learning Objectives

1. HRM Scope, Concepts, Principles, Strategies and role get broadly defined and students get wider knowledge of the subject. The subject learning is essential in today's competitive business world.
2. Recruitment, selection, performance appraisal, Training and development are vital requirements every working personnel to know and HRM subjects gives holistic knowledge of the same

Course Outcomes

- C1) The students will be able to apply theory, concept of HRM in their job place
- C2) Jobs and Careers in HRM will encourage students to take up promising jobs in HRM field

3) Course Name: Consumer Behaviour

Learning Objectives

The Course learning objectives broaden the knowledge and awareness of students towards Consumer Behaviour practices and applications

Course Outcome:

- C1) To understand and strengthen fundamentals of Consumer Behaviour.
- C2) To create awareness about consumer motivation and perceptions.





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C3) To understand underlying behaviour about consumer learning. C4) To understand consumer behaviour in globalised era

4) Course Name: Business Ethics

Learning Objectives

1. Ethics is the backbone of human life as it allows a person to behave, work or act with responsibility, ethics, values and morals
2. Business ethics is a must for students to study the etiquettes of life

Course Outcomes

C1) Business Ethics subject will create a society with more morally sound and ethical right persons

C2) The subject will allow students to embrace good values thereby having a sense of right and wrong

5) Course Name: Organisational Behaviour

Learning Objectives

1. Organisational Behavior is essential part of working life of employees
2. Organisational Behavior allows employees to internalize good working culture, respect to the organization

Course Outcomes

C1) Students will learn that organizational goals are far more important than individual goals

C2) Students will learn to manage stressful conditions of work place

6) Course Name: Research Methodology In Commerce and Management

Learning Objectives

1. The main objective of research is to find out answers to the research questions in a more scientific manner.
2. Research methodology in commerce and management will bear major objective of applying research for problem oriented research and problem solving research

Course Outcomes

C1). Research methodology in commerce and management subject will provide the students objectivity through subject in systematic manner

C2). Research methodology in commerce and management subject will teach students to adopt ethical standards, defining purpose of research, revealing limitations of research frankly, analysing collected data accurately, correctly and authentically, presenting findings unambiguously and giving unbiased conclusions

M.Com(Business Management)-Semester -II

Accumulation of Knowledge and intellectual growth results in overall development of persons intelligence and capacity to navigate the complexities of world effectively

1) Course Name: Customer Relationship Management

Learning Objectives

- a) To enable the learners to understand Customer relationship management concept from marketing management perspective
- b) The course would enable the students to understand the growing importance of CRM
- c) To acquaint the learners with understanding CRM benefits from organisations and customers point of view

Course Outcomes

CO1. Understand the basic concepts and process of CRM

CO2. Analytical understand use and application of CRM strategies

2) Course Name: Brand Management

Learning objectives

- a) To Provide the learners to understand about Branding as today's need
- b) To acquaintance about the brand management and its approaches
- c) To acquaint with the new image of branding and should develop the brand image for the organisations.





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d) To familiarize the learners with the challenges in development of branding for the company and learners should provide solutions through branding research.

Course Outcomes

- CO1) Evaluate branding challenges and develop a strategic brand equity business plan
- CO2) Scrutinise the strategic brand management for developing good branding for organisations
- CO3) Develop the idea of branding research and Co-branding.

3) Course Name: Professional Intelligence

Course Outcomes

- CO1) To Provide the learners to comprehend new terms of Professional Intelligence and its Importance
- CO2) To give them knowledge about the effect on recruitment and organisational culture
- CO3) To develop learning and analytical skills of the learners to enable them to solve cases and they should prepare the solution for the challenges
- CO4) To acquaint the learners with recent developments and trends in the business corporate world related to Professional Intelligence

4) Course Name: Hospitality Management Course


Course Outcome:

- CO 1– Improve soft skills to enhance communication skills.
- CO 2 – Understand the importance of application of Principles of Management
- CO 3 – Understand the Importance of Hospitality in the Hotel industry
- CO4 – Understand the importance of Hospitality in Tourism Industry

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MASTER OF COMMERCE (BUSINESS MANAGEMENT)

COURSE OUTCOMES


MCOM PART II

SEMESTER III			
Human Resource Management			
<ul style="list-style-type: none">Human Resource ManagementHuman Resource DevelopmentLatest Development in H.R.M. and Labour LegislationEmerging Issues In H.R.M	<p>Learners should be able to</p> <ul style="list-style-type: none">To Understand concept of HRM and HRPTo Understand methods of training and performance appraisalTo Be aware of latest developments in labour legislationsTo Understand HR practices at global level	<p>Upon successful completion of this course learners will be able to</p> <ul style="list-style-type: none">analyse the importance of HRM and HRPDevelop Competency to recruit, train, and appraise the performance of employeesDevelop ability to implement Employee benefits and Welfare measuresDevelop ability to evaluate the new trends in HRM	
Entrepreneurial Management			
<ul style="list-style-type: none">Entrepreneurship Development PerspectiveCreating Entrepreneurial VentureProject ManagementAssistance and Incentives for Promotion and Development of Entrepreneurship	<ul style="list-style-type: none">To be aware of Factors affecting growth of EntrepreneurshipTo understand problems of entrepreneursTo Understand Project Management in depthTo understand the need for incentives for development of entrepreneurship	<ul style="list-style-type: none">Compare and classify types of entrepreneursUnderstand the key resources required to develop an existing businessDescribe project evaluationEvaluate the entrepreneurial support in India	
Rural Marketing			
<ul style="list-style-type: none">Introduction to Rural MarketingConsumer Behaviour and Rural Marketing	<ul style="list-style-type: none">to understand the rural price, distribution, communication, productTo know about the strategy	<ul style="list-style-type: none">create understanding of Indian Rural market scenarios and areas of possible future success.	

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<ul style="list-style-type: none">• Agricultural Marketing• Recent Trends in Rural Marketing	<ul style="list-style-type: none">about rural marketing with recent updates.• To develop an understanding of Consumer Behaviour in Rural Markets• To understand scope and importance of Agriculture marketing	<ul style="list-style-type: none">• aware of the rural buying strategy, consumer types, marketing needs and behaviours.• give a brief view of Indian scenario of Agriculture in India, Marketing Possibilities and future in Agro marketing• updated with recent amendments and updates related to Rural marketing
SEMESTER IV		
Supply Chain Management and Logistics		
<ul style="list-style-type: none">• Introduction to Supply Chain Management• Perspectives of SCM• Introduction to Logistics• Design of SCM, Logistics and Use of Internet	<ul style="list-style-type: none">• To Develop an Understanding of Basic Concepts And Role of Supply Chain In Business• To Understand The Global And Indian Perspectives Of SCM• To Understand Logistics In Depth• To Learn Use Of Internet In SCM- E-Market Places Etc	<ul style="list-style-type: none">• Understand The Fundamentals of Elements, Functions of Supply Chain, And Integrate Various Supply Chain Strategies• Suggest Ways F Improving Customer Services In SCM.• Describe Importance Of Inventory Management• Describe Performance Modelling Of Supply Chains Using Markov Chains
Advertising And Sales Management		
<ul style="list-style-type: none">• Advertising Fundamentals and Media• Creativity, Social and Regulatory Framework of Advertising• Sales Management• Sales Planning and Controlling	<ul style="list-style-type: none">• To Understand fundamentals of advertising and media• To Learn about the regulatory framework of advertising• To Know about sales force management• To understand the importance of customer feedback	<ul style="list-style-type: none">• demonstrate understanding of role of advertising agencies and new media options available• develop advertising copy• describe qualities of effective salesman• Organize sales territories to maximize selling effectiveness.

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Retail Management		
1. Introduction to Retail Management 2. Retail Management Strategy 3. Retail Location, Layout and Merchandising 4. Use of Technology and Career options	<ul style="list-style-type: none">• To highlight the importance of retailing in increasing market share.• To enable to understand Retail shopper behaviour and its decision-making process.• To familiarize with different types of retail locations and concepts like retail store design and visual merchandising, retail merchandising etc.• To make understand the concept of Category management	<ul style="list-style-type: none">• Knowledge about Retailing practices followed in India.• Ability to understand behaviour of Retail shopper.• Basics of Retail Merchandising and Merchandising Planning Process.• Familiar with Merchandise Procurement and Retail pricing issues.

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BACHELOR OF MANAGEMENT STUDIES

COURSE OUTCOMES


FYBMS

SEMESTER 1		
SYLLABUS	OBJECTIVES	OUTCOMES
Foundation of Human Skills		
1. Understanding of Human Nature 2. Introduction to group behavior 3. Organisational culture and Motivation at work place 4. Organisational change, creativity and development and work stress	1. To learn about basics of human nature 2. To be aware of group dynamics and organizational systems 3. To understand about need for motivation at work place and how organizational culture can be nurtured and sustained 4. To gain a general understanding of organizational change and development concepts and stress management	1. Effectively manage interpersonal relationships 2. Contribute as a team member and exercise leadership skills. 3. Identify ways of coping with stress effectively
Business Law		
1. Contract Act 1872 & Sale of Goods Act 1930 2. Negotiable Instrument Act 1981 & Consumer Protection Act 1986 3. Company Law 4. Intellectual Property Rights	1. To make students aware of basic provisions of Contract Act 1872 and Sale of Goods Act 1930 2. To acquaint learners with Negotiable Instrument Act 1981 and Consumer Protection Act 1986 3. To make aware of the basic rules and concepts of corporate law 4. To acquaint the students with basics of intellectual property rights with special	1. Spot legal problems before they become issues. 2. Understand IP inventions and avoid IP infringements 3. Apply basic legal knowledge to business transactions

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	reference to Indian Laws and its practices.	
Business Statistics		
1. Introduction to Statistics 2. Measures of Dispersion, Co relation and Linear Regression 3. Time series and Index Number 4. Probability and Decision Theory	1. To understand the basic concepts, functions and methods of statistical tools. 2. To learn the purpose of measures of dispersion 3. To understand time series and index number 4. To study the application of decision theory in business	1. Measure performance of a business and identify trends 2. Make sound and smart decisions for a company or business 3. Produce appropriate graphical and numerical descriptive statistics for different types of data.
Business Economics-I		
1. Introduction 2. Demand Analysis 3. Supply and Production decisions and Cost of production 4. Market structure: perfect competition and Monopoly and Pricing and Output decisions under imperfect competition 5. Pricing Practices	1. To stimulate the student's interest by showing the relevance and use of various economic theories. 2. To make students aware of demand function and demand estimation and forecasting 3. To acquaint learners about production function and cost concepts 4. To compare and contrast common market structures, including perfect competition and monopoly 5. To make aware of different pricing methods	1. Develop the ability to explain the core economic terms, concepts and theories 2. Use critical thinking skills within the discipline of economics about economic matters. 3. Become well trained professionals with inter and multi-disciplinary skills for applied economic analysis
Business Communication-I		
1. Theory of Communication 2. Obstacles to Communication in	1. To understand the methods and modes of communication. 2. To understand about the	1. Foster good working relationships at their workplace 2. Identify and apply suitable modes of communication

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business world 3. Business Correspondence Language and writing skills	barriers to communication 3. To provide basic understanding of business correspondence 4. To develop language and writingskills	3. Overcome barriers to effective communication
Introduction to Financial Accounting		
1. Introduction 2. Accounting transactions 3. Depreciation accounting & trial balance 4. Final accounts	1. To know about accounting principles and accounting concepts 2. To understand journal entries, ledger posting and subsidiary books 3. To understand depreciation and trial balance 4. To understand the preparation of financial statements.	1. Explain purposes and functions of accounting 2. Combine practice and theoretical knowledge of financial accounting. 3. Develop ability to prepare financial statements
Foundation Course -1		
1. Overview of Indian Society 2. Concept of Disparity 3. The Indian Constitution 4. Significant aspects of political process	1. To understand the multicultural diversity of Indian society 2. To understand the concept of disparity arising out of stratification and inequality 3. To understand the basics of Indian Constitution 4. To understand the political party system of India	1. Explain the demographic composition and rich diversity of India 2. Inculcate patriotism and values of tolerance, peace and harmony 3. Identify inequalities and issues faced by people with disabilities
SEMESTER II		
Principles of Management		
1. Nature of management 2. Planning and Decision making 3. Organising	1. To understand basic concepts of management. 2. To study the evolution of management thought	1. Effectively manage an organization 2. Successfully handle different managerial situations.

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4. Directing, leadership, coordination and controlling	3. To understand the importance of planning and various techniques of decisionmaking 4. To study the importance of managerial role in the organisation	3. Practice the process of management's four functions: planning, organizing, leading, and controlling.
Principles of Marketing		
1. Introduction to marketing 2. Marketing environment, Research and Consumer behavior 3. Marketing Mix 4. Segmentation, Targeting and positioning and Trends in Marketing	1. To understand basic concepts of marketing 2. To introduce students to consumer behavior and their impact on marketing 3. To learn how companies use marketing mix to market to their target customers 4. To understand the purpose of segmentation, targeting and positioning in marketing	1. Acquire skills necessary to become successful marketing managers. 2. Use marketing information and research to develop marketing strategies for an organization. 3. Present effective solutions to customers' needs
Business Communication - II		
1. Presentation Skills 2. Group Communication 3. Business Correspondence 4. Language and Writing Skills	1. To study how to make effective presentation during business meetings etc 2. To be trained in group communications 3. To apply appropriate communication skills across settings, purposes, and audiences. 4. To prepare different types of reports	1. Communicate effectively in variety of organizational settings 2. Participate effectively in groups with emphasis on listening, critical and reflective thinking 3. Demonstrate a good understanding of effective business writing
Foundation Course-II		
1. Globalization and Indian Society 2. Human Rights	1. To gain knowledge about LPG 2. To know about Human	1. Explain the effect of globalization on Indian Industry

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3. Ecology 4. Understanding Stress and Conflict 5. Managing Stress and Conflict in Contemporary society	Rights constituents with special reference to Fundamental Rights stated in the Constitution 3. To understand concepts of environment, ecology and their interconnectedness 4. To learn about the causes of stress and conflicts and how to manage the same	2. Protect and promote human rights Manage stress effectively
Industrial Law		
1. Laws related to industrial relations and industrial disputes 2. Laws related to health safety and welfare. 3. Social legislation 4. Laws related to Compensation Management	1. To study various laws related to industrial relations and industrial disputes 2. To study laws related to safety, health and welfare of workers 3. To know about social legislation in India 4. To study laws related to compensation management	1. Apply aspects of employment law to real workplace situations 2. Consider the ethical, equity, and sustainability implications of current and emerging labour regulation Calculate Gratuity with the help of The Payment of Gratuity Act 1972
Business Mathematics		
1. Elementary Financial Mathematics 2. Matrices and Determinants 3. Derivatives and application of derivatives 4. Numerical Analysis (interpolation)	1. To use elementary knowledge relating to financial mathematics, in day to day operations 2. To provide primary knowledge regarding mathematical techniques to be used in managerial decision making. 3. To understand mathematical definition and use them correctly 4. To develop analytical ability	1. Demonstrate an understanding of the common body of knowledge in mathematics. 2. Use mathematical ideas to model real-world problems 3. Prepared to use mathematics in their careers.

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Business Environment

1. Introduction to business environment	1. To understand the concept of business environment	1. Analyze the environment of a business from the legal & regulatory, cultural, political, technological and natural perspectives.
2. Political and Legal environment	2. To acquaint learners with the political institutions and economic environment	2. Conduct an in-depth analysis of a specific component of the business environment and relate it to their organization.
3. Social and Cultural environment, Technological and Competitive environment	3. To learn about business strategies for socio cultural environment	3. Identify the main features of the international business environment and its main institutions
4. International environment.	4. To be aware of international environments and the challenges faced and opportunities available.	

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**BACHELOR OF MANAGEMENT STUDIES
COURSE OUTCOMES**

SYBMS

SEMESTER III		
Foundation Course –III (Environmental Management)		
1. Environment concepts 2. Environment Degradation 3. Sustainability and role of business 4. Innovations in business - an environmental perspective	1. To be aware of environmental concepts. 2. To make students understand reasons behind environment degradation 3. To understand sustainability and its role in business 4. To be aware of different technological improvements leading to improvement in environmental conditions	1. Address complex environmental issues from a problem-oriented perspective. 2. Demonstrate and apply an advanced understanding of sustainable development practices in environmental management 3. Adopt innovative technology for a greener future
Accounting For Managerial Decisions		
1. Analysis and interpretation of financial statements 2. Ratio analysis and interpretations 3. Cash flow statement 4. Working Capital	1. To acquaint learners with management accounting fundamentals 2. To develop financial analysis skills among learners 3. To provide useful information about cash flows of an enterprise. 4. To study the importance of working capital management	1. Apply methods of management accounting to different organizational settings 2. Evaluate financial data utilizing various financial statement analysis techniques. 3. Evaluate and assess Credit Policies of an organization.
Business Planning and Entrepreneurial Management		
1. Foundation of entrepreneurship development 2. Types and classification of entrepreneurs	1. To introduce students to entrepreneurship activities and recent trends in entrepreneurship. 2. To make students aware	1. Assess the commercial viability of new business opportunities. 2. Possess the necessary skills to become successful

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3. Entrepreneur development and Business plan 4. Venture Development	about the role played by entrepreneur, social entrepreneur and NGOS. 3. To acquaint learners about business plan, and problems faced while preparing the plan. To make students aware about different sources of finance, marketing methods and new trends in Entrepreneurship.	entrepreneurs 3. Plan, organize, and execute a project or new venture with the goal of bringing new products and service to the market.
Strategic Management		
1. Introduction 2. Strategic formulation 3. Strategic implementation Strategic evaluation & control	1. To expose students to various perspectives and concepts in field of strategic management. To develop conceptual skills in strategy formulation areas. To understand strategic implementation as an organizational imperative 2. To discuss the nature and importance of strategic evaluation and control.	1. Explain the strategy vocabulary including such terms as mission, vision, aims and objectives, and control 2. Demonstrate the knowledge and abilities in formulating strategies and strategic plans 3. State the nature of strategy formulation, implementation and evaluation activities
Information Technology in Business Management - I		
1. Introduction to IT support in Management 2. Office Automation using MS Office 3. Email, internet and its applications 4. E Security	1. To learn basic concepts of IT, its support and role in Management. 2. To provide practical learning required for office automation 3. To understand the basic concepts of Email, Internet and websites, domains and security therein.	1. Effectively identify and apply IT-based solutions to different problem domains. 2. Write professional emails 3. Identify different types of threats to computer systems and control measures

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	4. To recognize security aspects of IT in business, highlighting electronic transactions, advanced security features	
Corporate Finance		
1. Introduction 2. Capital Structure and leverage 3. Time Value of Money Mobilization of funds	1. To explain core concepts of corporate finance and its importance in managing a business 2. To provide understanding of nature, importance, structure of corporate finance related areas 3. To understand time value of money 4. To study about different sources of funds	1. Explain and be able to communicate the nature of corporate finance in an academic or a business forum 2. Select a company's optimal mix of debt and equity financing 3. Apply time-value-of-money techniques to the evaluation of securities
Introduction to Cost Accounting		
1. Introduction 2. Elements of cost 3. Cost projection 4. Emerging Cost Concepts	1. To familiarize the students with the basic cost concepts and methods of costing 2. To make students aware of elements of cost. 3. To understand the costing of a product and difference between cost and financial accounting. 4. To enable the students to understand modern cost concepts.	1. Explain the basic concept of cost and how costs are presented in financial statements. 2. Apply fundamental cost accounting methods, processes, and calculations for the purposes of planning. 3. Evaluate the different strategies to arrive at the optimal cost for the purpose of decision making.
Recruitment & Selection		
1. Recruitment 2. Selection 3. Induction 4. Soft Skills	1. To acquaint learners with the concepts of recruitment, sources and procedure of recruitment 2. To inform about selection and selection process	1. Conduct recruitment and selection in a fair manner 2. Describe the true cost of recruitment to an organization and how employing the best candidates ensures a successful

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	<ol style="list-style-type: none">3. To make aware of induction, socialization and current trends in recruitment and selection4. To give knowledge about different soft skills	<p>business.</p> <ol style="list-style-type: none">3. Demonstrate the ability to prepare a selection strategy for a specific job.
Employees Relations and Welfare		
<ol style="list-style-type: none">1. Overview of employee Relations and collective bargaining2. Overview of Employee Welfare.3. Welfare and work Environment4. Management Workers Participation and Employee Grievances	<ol style="list-style-type: none">1. To Know about the nature and importance of employee relations in an organization2. To study the need for employee welfare in an organization3. To understand the need for healthy work environment4. To understand the causes and effects of employee grievances as well as the procedure to solve them.	<ol style="list-style-type: none">1. Apply the principles of employee relations in the organizational context2. Analyze core issues, policies and practices surrounding employee relations and legal issues3. Maintain good relations within an organization.
SEMESTER IV		
Production and Total Quality Management		
<ol style="list-style-type: none">1. Production management2. Material management3. Basics of productivity and TQM4. Quality improvement strategies and certifications	<ol style="list-style-type: none">1. To acquaint learners with the basic management decisions with respect to production and quality management2. To identify key leaders in the field of quality and their contributions3. To describe evolution of TQM To describe quality awards and quality certifications	<ol style="list-style-type: none">1. Implement the principles of TQM in manufacturing and service-based organization for continuous quality improvement2. Apply the PDCA cycles to various organization process3. Apply various quality improvement techniques
Business Research Methods		
<ol style="list-style-type: none">1. Introduction to business	<ol style="list-style-type: none">1. To develop an understanding	<ol style="list-style-type: none">1. Demonstrate the ability to

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research methods 2. Data collection and processing Data analysis and interpretation 3. Advance techniques in report writing	of basic framework of research process 2. To identify various sources of data collection 3. To inculcate analytical abilities and research skills amongst students 4. To understand how to write a research report	think critically, research, and reason. 2. Apply appropriate research design and methods to address business problems. 3. Develop skills in qualitative and quantitative data analysis and presentation
Business Economics –II		
1. Introduction to macro-economic data and theory 2. Money, inflation and monetary policy 3. Constituents of fiscal policy Open economy: theory and issues of international trade	1. To understand the evolution and operation of economic policies. 2. To learn about the effect of macro-economic policies on managerial decisions 3. To understand monetary and fiscal policies and how they affect the economy 4. To understand theories of international trade.	1. Analyze the industry structure and firm-level conduct to develop profit maximizing pricing and production strategies 2. Identify the causes of prosperity, growth, and economic change over time and explain the mechanisms through which these causes operate in the economy. 3. Define monetary policy and differentiate it from fiscal policy; identify the tools of monetary policy and fiscal policy
Foundation Course –IV (Ethics & Governance)		
1. Introduction to ethics and Business ethics 2. Ethics in marketing, finance and HRM 3. Corporate governance Corporate social responsibility	1. To understand significance of ethics and ethical practices in business which are indispensable for the progress of a country 2. To learn the applicability of ethics in functional areas 3. To Identify ethical dilemmas and understand	1. Apply theoretical and practical approaches to business ethics, CSR and CG relevant to contemporary environment. 2. Promote ethical standards at work place and provide a consistent example of desired ethical conduct.

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	their implications 4. To enable learners, understand the scope of CSR	3. Demonstrate a critical appreciation of importance of corporate responsibility and how it relates to corporate strategy.
Information Technology in Business Management –II		
1. Management Information system 2. ERP/E SCM/ECRM 3. Introduction to databases and data warehouse 4. Outsourcing	1. To understand managerial decision making and to develop perceptive of major functional area of MIS. 2. To provide conceptual study of ERP, SCM, CRM, key issues in implementation 3. To learn and understand relationship between database management and data warehouse approaches etc. 4. To learn outsourcing concepts	1. Develop a clear understanding of Information Technology 2. Demonstrate the ability to manage the dissemination of information via different formats 3. Learn to use various IT tools for solving Business Problems.
Financial Institutions and Market		
1. Financial system in India 2. Financial regulators and Institution in India 3. Financial markets 4. Managing financial systems design	1. To understand the Indian Financial System and its functioning 2. To understand the role and functions of financial regulators 3. To learn about financial markets in detail 4. To learn about Financial system designs of Developed countries	1. Interpret a variety of financial systems, how they operate, who uses them and their role in economies, including financial and economic parameters. 2. Critically evaluate the historical development of regulations and supervision of financial markets. 3. Define the primary and secondary markets.
Auditing		
1. Introduction to Auditing 2. Audit planning, procedures	1. To acquaint students with the various concepts of	1. To apply auditing knowledge to undertake auditing

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and documentation 3. Audit techniques and internal audit introduction 4. Audit techniques: Vouching & Verification	auditing. 2. To help them develop proper plan to perform auditing 3. To make them understand the importance of internal audit 4. To understand and practice various techniques of auditing while managing their finances	processes in a variety of professional settings. 2. Explain the meaning of concepts that are fundamental to auditing 3. Design an audit plan
Conflict Negotiation		
1. Overview of conflict 2. Conflict management 3. Overview of negotiations 4. Managing negotiations ethics in negotiations and 3D negotiation	1. To understand the nature of conflicts, their causes and outcomes 2. To study the aspects of conflict management and how to handle them effectively 3. To get insight into negotiation and negotiation process 4. To understand the role of third-party negotiation and skills for effective negotiation.	1. Recognize the nature of conflict and its impact on interpersonal relationships and organizations. 2. Apply different approaches and strategies in resolving conflicts at the workplace 3. Develop and execute effective negotiation strategies and tactics for different scenarios
Training and Development in HRM		
1. Overview of training 2. Overview of development 3. Concept of management development 4. Performance management, Talent management and Knowledge management	1. To explain the organizational, societal and individual costs and benefits of training and development 2. To make students aware about importance of counseling 3. To discuss the process of management development Program	1. Apply advanced training strategies in an organization 2. Propose appropriate training methods for an organization 3. Analyse training needs of an organization

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	4. To learn the importance of performance management and knowledge management	
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BACHELOR OF MANAGEMENT STUDIES

COURSE OUTCOMES


TYBMS

SEMESTER V		
Corporate Communications and Public Relation		
1. Foundation of corporate communication 2. Understanding public relations 3. Function of corporate communication and public relations 4. Emerging technology in corporate communication and public relation	1. To provide the students with basic understanding of the concepts of corporate communication and public relations 2. To introduce the various elements of corporate communication and consider their roles in managing organizations 3. To examine how various elements of corporate communication must be coordinated to communicate effectively 4. To develop critical understanding of the different practices associated with corporate communication	1. Demonstrate effective communication skills in the corporate world 2. Recognize the basic concepts and approaches of corporate communications. 3. Apply strategies and tools to build and manage stakeholder relationships to support public relations activities, organizational objectives and career development.
Logistics and Supply Chain Management		
1. Overview of logistics and supply chain management 2. Elements of logistics mix 3. Inventory management, logistics costing, performance management and logistical network analysis	1. To provide students with basic understanding of concepts of logistics and supply chain management 2. To introduce students to key activities performed by the logistics functions 3. To provide an insight in to the nature of supply chain, its functions and supply chain systems	1. Relate to the concepts of Logistics and Supply Chain Management 2. Analyze how logistical decisions (e.g., facilities, inventory, and transportation) impact the performance of the firm as well as the entire supply chain. 3. Explain how technology has

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4. Recent trend in logistics and supply chain management	4. To understand global trends in logistics and supply chain management	and continues to change logistics and supply chain management.
Investment Analysis and Portfolio Management		
1. Introduction to investment environment 2. Risk return relationship 3. Portfolio management and security analysis 4. Theories, capital asset pricing model and performance measurement	1. To acquaint learners with various alternatives to investment 2. To learn about the relationship between risk and return 3. To understand the basic principles of portfolio construction 4. To understand various models and techniques of security and portfolio analysis	1. Apply appropriate techniques for valuation and management of fixed income and equity investments. 2. Measure and interpret the performance of portfolios in an objective fashion. 3. Describe the steps of the portfolio management process
Wealth Management		
1. Introduction 2. Insurance planning and investment planning 3. Financial mathematics/ tax and estate planning 4. Retirement planning/ income streams and tax saving schemes	1. To provide an overview of various aspects related to wealth management 2. To study the relevance and importance of Insurance in wealth management 3. To acquaint the learners with issues related to taxation in wealth management 4. To understand various components of retirement planning	1. Demonstrate understanding of the key principles and practices involved in effective wealth management. 2. Select appropriate insurance products to cover financial risks. 3. Select and recommend the most appropriate financial and investment strategies for individual clients.
Direct Taxes		
1. Definitions and residential status 2. Heads of income I 3. Heads of income II 4. Deduction under chapter VIA 5. Computation of taxable income of individuals	1. To understand the provisions of determining residential status of individual 2. To study various heads of income 3. To study exemptions and deductions from total income 4. To compute taxable income of Individuals	1. Demonstrate knowledge of the concepts, principles, and rules of taxation of individuals. 2. Demonstrate how taxable income and tax payable are calculated 3. Apply critical thinking for identifying and addressing

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		various issues in taxation
Risk Management		
1. Introduction, risk measurement and control 2. Risk avoidance and ERM 3. Risk governance and assurance 4. Risk management in insurance	1. To Familiarize the student with the fundamental aspects of risk management and control 2. To give a comprehensive overview of risk governance and assurance with special reference to insurance sector 3. To introduce the basic concepts, functions, process, techniques of risk management 4. To study the impact of risk management in insurance sector	1. Demonstrate knowledge of the range of financial and financial related risks facing organisations 2. Manage risk cost-effectively on an enterprise-wide basis. 3. Identify and categorize the various risks face by an insurance organization
Finance for HR Professionals and Compensation Management		
1. Compensation plans and HR professionals 2. Incentives and wages 3. Compensation to special group and recent trends 4. Legal and ethical issues in compensation	1. To orient students with financial concepts 2. To make students about incentive plans, wage differentials and theories of wages 3. To make aware of compensation made to special groups and recent trends 4. To study issues related to compensation management and understand the legal framework of compensation management	1. Design compensation schemes that are cost effective, that increase productivity of the work force, and comply with the legal framework. 2. Identify the factors considered in deciding compensation 3. Effectively deal with issues and challenges related to compensation management
Strategic HRM and HR Policies		
1. SHRM – an overview 2. HR strategies 3. HR policies 4. Recent trends in SHRM	1. To understand human resource management from a strategic perspective 2. To link the HRM functions to corporate strategies in order	1. Identify the linkage between HRM functions and operations and organizational strategies. 2. Apply the theories and

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	to understand HR as a strategic resource 3. To understand the relationship between strategic human resource management and organizational performance 4. To understand the purpose and process of developing Human Resource Policies	concepts relevant to strategic human resource management in contemporary organizations. 3. Play an active role in defining an organization's HR policy
Performance Planning and Career Planning		
1. Performance management – an overview 2. Performance management process 3. Ethics, under performance and key issues in performance management 4. Career planning and development	1. To understand the concept of performance management in organization 2. To review performance appraisal systems 3. To learn key issues in performance management 4. To understand the significance of career planning and practices	1. Assess how increased employee involvement can contribute to effective performance. 2. Apply best practices for enhancing their performance in an organization 3. Identify career paths and opportunities available to support individual development.
Stress Management		
1. Understanding stress 2. Managing stress I 3. Managing stress II 4. Stress management leading to success	1. To understand the nature and causes of stress in organizations 2. To familiarize the learners with the stress prevention mechanism 3. To understand the strategies that help cope with stress 4. To enable learners to adopt effective strategies, plans and techniques to deal with stress	1. Apply stress management principles in order to achieve high levels of performance. 2. List out tactics for successful time management 3. Assess and analyze the symptoms, causes and effects of personal and academic stressors in order to implement appropriate stress management techniques.
SEMESTER VI		
Operations Research		

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1. Introduction to operation research and linear programming 2. Assignment and transportation model 3. Network analysis 4. Job sequencing and theory of games	1. To make students proficient in case study analysis and interpretations 2. To help students to understand operation research methodologies 3. To use CPM and PERT techniques, to plan, schedule, and control project activities. 4. To learn to formulate best strategy using decision making methods under uncertainty and game theory.	1. Formulate and solve mathematical model (linear programming problem) for a physical situation like production, distribution of goods and economics. 2. Use appropriate techniques to represent and analyze projects with a view to managing resources, minimizing costs, and coping with uncertainty. 3. Solve numerical on Transportation Models and Assignment Models.
Innovative Financial Services		
1. Introduction to traditional financial services 2. Issue management and securitization's 3. Financial services and its mechanisms 4. Consumer finance and credit rating	1. To familiarize the learners with the fundamental aspects of various issues associated with financial services 2. To give a comprehensive overview of emerging financial services in the light of globalization 3. To introduce the basic concepts, functions, process, techniques and create an awareness of the role, functions and functioning of financial services 4. To make them understand the importance of consumer finance and credit rating	1. Explain the relevance of financial services to the individual. 2. Demonstrate an awareness of the current structure and regulation of the Indian financial services sector. 3. Demonstrate an awareness of the current structure and regulation of the Indian financial services sector.
Project Management		
1. Introduction to project management and project initiation 2. Analysing project	1. To familiarize the learners with the fundamental aspects of various issues associated with project management	1. Select alternative projects among often competing objectives using multiple criteria decision-making

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feasibility 3. Budgeting, cost and risk estimation in project management 4. New dimension in project management	2. To give a comprehensive overview of project management as a separate area of management 3. To introduce the basic concepts, functions, process, techniques and create an awareness of the role, functions and functioning of Project Management 4. To be aware of new dimensions in project management	techniques. 2. Applies the PM processes to initiate, plan, execute, monitor and control, and close projects and to coordinate all the elements of the project 3. Assume responsibility as a professional practitioner of project management, applying PM principles and practices while maintaining high standards of practice.
Indirect Taxes		
1. Introduction to indirect tax and GST 2. Concept of supply 3. Registration and computation of GST 4. Filing of returns	1. To study Indirect taxes and the newly introduced GST system. 2. To know the provisions of place of supply 3. To study the registration and computation of GST 4. To acquaint the students with filing of returns in GST	1. Understand the major implication of GST on business operations in India and its impact on company and clients 2. Do the process of registration of GST as per law 3. Knowing "place of supply rules" and applicability of the same under GST
Strategic Financial Management		
1. Dividend decision and XBRL 2. Capital budgeting and capital rationing 3. Shareholder value and corporate governance / corporate restructuring 4. Financial management in banking sector and working capital financing	1. To acquaint learners with contemporary issues related to financial management 2. To Understand the concept of sensitivity analysis, scenario analysis and decision tree approach 3. To learn about theories of corporate governance 4. To study the changing scenario in Banking sector and the inclination of	1. Consolidate knowledge of and apply the technical language and practices of financial management 2. Critically analyze topical Financial Management issues within a strategic context. 3. Analyse financial data and provide a decision on a course of action that is in the best interest of firm shareholders

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	learner's towards choosing banking as a career option.	
HRM in Global Perspective		
1. International HRM- an overview 2. Global HRM functions 3. Managing expatriations and repatriations 4. International HRM trends and challenges	1. To understand the concepts, theoretical framework and issues of HRM in global perspective 2. To discuss various function of HRM 3. To introduce the aspects of expatriation and repatriation 4. To study international HRM trends and challenges	1. Effectively manage HR roles in a global environment. 2. Identify issues that impact HR practices at a global level. 3. Recognize, outline, and illustrate the enduring global contexts of International HRM
Human Resource Management in Service Sector Management		
1. Service sector management – an overview 2. Managing human element in service sector 3. Issues and challenges of HR in service sector 4. HRP evaluation, attrition, retention and globalization	1. To understand the concepts and growing importance of HRM in service sector 2. To understand how to manage human resource in service sector 3. To identify issues and challenges of HR in service sector 4. To identify reasons for attrition in service sector	1. Effectively manage HRM in service sector. 2. Deal with issues and challenges of HR in service sector 3. Identify the relevance of human element in creating customer satisfaction through service quality
Organizational Development		
1. Organisational development an overview 2. Organisational diagnosis, renewal and change 3. OD intervention 4. OD effectiveness	1. To study issues and challenges of OD while undergoing changes 2. To get understanding of the phases of OD program 3. To understand in depth about alternative development interventions and how organizations can benefit from these interventions 4. To learn the difference	1. Identify, interpret, diagnose organizational needs for development and change, recommend and implement development solutions to organizational problems, 2. Develop, implement, and evaluate organizational development strategies aimed at promoting organizational

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	between OD efficiency and OD effectiveness	effectiveness. 3. Demonstrate conceptualized knowledge of the characteristics and processes of organizational development.
Indian Ethos in Management		
1. Indian ethos an overview 2. Work ethos and values 3. Stress management 4. Indian systems of learning	1. To understand the concept of Indian ethos in management 2. To link traditional management system to modern management system 3. To understand techniques of stress management 4. To understand the evolution of learning systems in India	1. Identify features of Indian Ethos 2. Develop a balanced lifestyle in order to control stress in the long term 3. Applying value-based management and ethical practices.

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**BACHELOR OF SCIENCE
COURSE OUTCOMES
F.Y.B.Sc**

SEMESTER I		
PHYSICS		
SYLLABUS	OBJECTIVES	OUTCOME
Classical Physics	To develop analytical abilities towards real world problems. To familiarize with current and recent scientific technological developments. To enrich knowledge through problem solving, hands on training, study visits, projects etc.	Understand Newton's laws and apply them in calculations of the motion of simple systems. Use free body diagrams to analyze the forces on the objects. Understand the concepts of Friction, Elasticity and Fluid Mechanics and be able to perform calculations using them. Understand the concepts of lens system and interference. Apply the laws of thermodynamics to formulate necessary to analyze at thermodynamic process. Demonstrate quantitative problem solving skills in all the topics covered.
Modern Physics	To develop analytical abilities towards real world problems. To familiarize with current and recent scientific technological developments. To enrich knowledge through problem solving, hands on training, study visits, projects etc.	Understand nuclear properties and nuclear behavior. Understand the types of isotopes and their applications. Demonstrate quantum mechanical problem solving skills in all the topics covered.
Practical	To develop analytical abilities towards real world problems. To familiarize with current and recent scientific technological	To demonstrate their practical skills. To understand and practice the skills while doing Physics practical. To correlate





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	developments.To enrich knowledge through problem solving, hands on training, study visits, projects etc.	the theory concepts through practical. Understand the concepts of errors and their estimation.
BOTANY		
Paper – I Plant diversity 1 Unit I - Algae, Unit II - Fungi Unit III - Bryophyte	To acquire knowledge about life cycle pattern of organisms also to study the evolutionary pattern, special characters and economic importance.	Will understand the identification mark of the organism and will be able to identify organism on the basis of classification system. Learner also acquires knowledge about industrial agricultural and medicinal uses of the plants coming under these categories.
Paper – II Form and function 1 Unit I - Cell biology Unit II - Ecology Unit III - Genetics	To acquire knowledge about structure and functions of various cell organelles, ecosystem of organism, various laws of nature and hereditary characters.	Will understand structure and physiological function of various cell organelles, their ecosystem and expression of genetic characters in an individual.
ZOOLOGY		
Wonders of Animal World, Biodiversity and its Conservation	<ol style="list-style-type: none">1. To take learners through a captivating journey of hoarded wealth of marvellous animal world.2. To orient learners about rich heritage of Biodiversity of India and make them understand significance of its conservation.3. To teach learners about innovative and novel work of scientists/philosopher/entrepreneurs4. in the field of biological sciences.	<ol style="list-style-type: none">1. Curiosity will be ignited in the mind of learners, to know more about the fascinating world of animals which would enhance their interest and love for the subject of zoology.2. Learners would appreciate treasure of biodiversity, its importance and hence would contribute their best for its conservation.

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Instrumentation and Animal Biotechnology	<ol style="list-style-type: none">1. To make learners aware of risks involved in handling of different hazardous chemicals, sensitive (electrical/electronic) instruments and infectious biological specimens especially during practical sessions in the laboratory and to train them to avoid mishap. To acquaint learners to the modern developments and concepts of Zoology highlighting their applications aiming for the benefit of human being.2. To provide all learners a complete insight about the structure and train them with operational skills of different instruments required in Zoology	<ol style="list-style-type: none">1. Learners would work safely in the laboratory and avoid occurrence of accidents (mishaps) which will boost their scholastic performance and economy in use of materials/chemicals during practical sessions.2. Learners would understand recent advances in the subject and their applications for the betterment of mankind; and that the young minds would be tuned to think out of the box. Students will be skilled to select and operate suitable instruments for the studies of different components of Zoology of this course and also of higher classes including research
CHEMISTRY		
<p>Paper I General Chemistry</p> <ol style="list-style-type: none">1. Chemical Thermodynamics2. Chemical Calculations3. Atomic structure4. Periodic Table and periodicity5. Classification and Nomenclature of Organic Compounds6. Bonding and Structure of organic compounds7. Fundamentals of organic reaction mechanism	<ol style="list-style-type: none">1. Principles of thermodynamics and the feasibility of reactions2. Position of equilibrium in common chemical reactions3. Behavior of liquids and their properties.4. Principles of periodicity of properties of elements5. Properties of main group elements6. Classification and nomenclature of common organic compounds.7. Bonding and structure of	<ol style="list-style-type: none">1. Apply the principles of thermodynamics and predict the feasibility of reactions2. Predict the position of equilibrium in common chemical reactions3. Predict the behavior of liquids and their properties.4. Apply the principles of periodicity of properties of elements5. Compare and predict the properties of main group elements
<p>Paper II General Chemistry</p>		

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1. Chemical Kinetics 2. Liquid State 3. Comparative chemistry of Main Group Elements 4. Stereochemistry I	organic compounds. 8. Mechanisms of common organic reactions 9. Stereochemical outcomes of common organic reactions	6. Classify and name common organic compounds. 7. Predict bonding and structure of organic compounds. 8. Draw mechanisms of common organic reactions 9. Predict stereochemical outcomes of common organic reactions.
Practical 1. Preparation of solutions 2. Commercial analysis 3. Titration using double indicator 4. Gravimetric analysis 5. Purification of any two organic compounds by recrystallization 6. Chromatography 7. Chemical Kinetics 8. Inorganic qualitative analysis 9. Redox titration 10. Characterization of organic compound	1. Preparation and standardisation of solutions 2. Titrations using suitable indicators 3. Impurities of commercial acid samples 4. Purification of a mixture of organic compounds 5. Chromatography for separation 6. Thermodynamic parameters like rate constants and enthalpy of dissolution 7. Buffers of different concentrations and find their pH using pH meter 8. Concentrations of solutions using colorimeter 9. Cations and anions in a binary salt mixture using semimicro inorganic qualitative analysis. 10. Characterisation of organic compounds	1. Prepare and standardise solutions 2. Titrate solutions using suitable indicators 3. Determine purities of commercial acid samples 4. Purify a mixture of organic compounds 5. Use chromatography for separation 6. Determine thermodynamic parameters like rate constants and enthalpy of dissolution 7. Prepare buffers of different concentrations and find their pH using pH meter 8. Determine concentrations of solutions using colorimeter 9. Identify cations and anions in a binary salt mixture using semimicro inorganic qualitative analysis. 10. Characterise and identify organic compounds
MATHEMATICS		
Maths -1(CALCULUS-I)	1. Students should know about	1. Students will get an insight

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Unit 1: Real Number system Unit II: Sequences Unit III: Limits &Continuity	the properties and all theorems related to Real numbers 2. To know about sequences, their convergence by applying different methods and theorems 3. To know about different functions, their graphs, limits and continuous functions	of Real number system and will get a clear idea of real numbers and real valued functions 2. Students should be able to give direct proofs, induction proofs and indirect proofs like method of contradiction or contrapositive proofs 3. Students should be able to analyse convergence of any sequence 4. Students will know the application of sequences 5. Students are able to sketch graphs of real valued functions using calculus 6. Students shall be able to use concept of continuity in real world problems
Maths II (Algebra I) Unit I : Integers & divisibility. Unit II Functions & Equivalence Relation Unit III : Polynomials	1. To understand the concept of the Well-Ordering property of non-negative integers and the first principle of induction as a consequence. 2. To know the Binomial theorem as a consequence of the first principle of induction and be able to evaluate the binomial coefficients. 3. To understand definition of divisibility and be able to give proof for division algorithm using the Well Ordering property. 4. To understand concept of g.c.d and the theorem of existence	1. Students will be able to understand the concept of the Well-Ordering property of non-negative integers and the first principle of induction as a consequence 2. Students will be able to evaluate the binomial coefficients and deduce some results using the Binomial theorem. 3. Students will be able to solve problems using definition of divisibility and are able to perform division using the division algorithm. 4. Students will be able to

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	<p>and uniqueness of g.c.d .</p> <p>5. To be able to apply the Euclidean algorithm to calculate the g.c.d.</p> <p>6. To understand the primes as an infinite set.</p> <p>7. To understand concept of congruence's., with applications- Euler's phi function, Fermat's theorem, Wilson's theorem and other applications</p> <p>8. To understand the concept of functions and different types of functions.</p> <p>9. To understand the equivalence between portions of a set and equivalence relation defined on a set.</p> <p>10. To understand Congruence as an equivalence relation .and the congruence classes as a consequence.</p> <p>11. To understand the definition of polynomials, concept of degree of apolynomial, division algorithm for polynomials.</p> <p>12. To understand evaluation of gcd of two polynomials using the Euclidean algorithm.</p> <p>13. To understand roots of a polynomial and relation between coefficients and roots of a polynomial.</p> <p>14. To understand the statement of the Fundamental theorem of Algebra.</p> <p>15. To understand necessary</p>	<p>valuate the g.c.d. of two integers using the Euclidean algorithm.</p> <p>5. Students will be able to solve problems involving Euclids lemma for primes. They are able to visualize the set of primes as an infinite set with progressively larger gaps between two consecutive primes.</p> <p>6. Students will be able to solve problems involving congruence's.</p> <p>7. Students will be able to compute the direct image, inverse image of functions.</p> <p>8. They will be able to find out the inverse of bijective functions.</p> <p>9. Students will be able to determine the equivalence classes of a set corresponding to an equivalence relation.</p> <p>10. Students will be able to add and multiply two polynomials and also determine the degree of a polynomial.</p> <p>11. Students will be able to evaluate the gcd of two polynomials using the Euclidean algorithm</p> <p>Students will be able to use the relation between roots of a polynomial and coefficients of a polynomial</p>
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	condition for a rational number to be a root of a polynomial with integer co-efficient.	
FOUNDATION COURSE		
UNIT-I Overview of the Indian society and Indian culture. UNIT-II Disparity Part 1 with respect to stratification and inequality due to caste, class and estate system and the problem of handicapped. UNIT-III Disparity part 2 casteism, communalism, linguism and regionalism. UNIT-IV The Indian Constitution Preamble, features and fundamental duties. UNIT-V Local self-government Urban and rural.	<ol style="list-style-type: none">1. The students are expected to understand the nature of diversity in the Indian society along with rural Urban and tribal characteristics.2. Students are expected to learn the nature of stratification and inequality existing in the Indian society.3. The students learn about various issues dividing society into certain categories.4. Students learn about basic concepts of the Indian Constitution and its significance.5. Student learn about the functioning of the local self-government in the rural and urban area.	<ol style="list-style-type: none">1. Students are made to understand the religious, linguistic and cultural diversity of the Indian society and its characteristics.2. Students are able to describe the nature of inequality and its causes and consequences on the society.3. Students are made to understand the nature of inequality caused due to these problems and find the solution.4. Students are able to understand the nature of preamble, features of the constitution and significance of fundamental duties.5. Students are able to understand working of the local self-government like municipal corporation, Z.P. Gram Panchayat etc.
SEMESTER II		
PHYSICS		
Mathematical Physics	To develop analytical abilities towards real world problems. To familiarize with current and recent	Understand the basic mathematical concepts and applications of them in physical

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	scientific technological developments.To enrich knowledge through problem solving, hands on training, study visits, projects etc.	situations.
Modern Physics	To develop analytical abilities towards real world problems. To familiarize with current and recent scientific technological developments.To enrich knowledge through problem solving, hands on training, study visits, projects etc.	Demonstrate quantitative problem solving skills in all the topics covered.
Practical	To develop analytical abilities towards real world problems. To familiarize with current and recent scientific technological developments.To enrich knowledge through problem solving, hands on training, study visits, projects etc.	To understand and practice the skills while doing physics practical. To understand the use of apparatus and their use without fear. To correlate the theory concepts through practical. Understand the concepts of errors and their estimation.
BOTANY		
Paper – I Plant diversity 1 Unit I - Pteridophyta Unit II - GymnospermsUnit III - Angiosperms	To acquire knowledge about life cycle pattern, evolutionary pattern, special characters and economic importance of organisms under this category. To study various structural and functional adaptations in animals.	Will understand the identification mark of the organism and are able to identify organism on the basis of classification system. Learner will also acquire knowledge about industrial agricultural and medicinal uses of the plants coming under these categories and their structural and functional adaptations.
Paper – II Form and function 1 Unit I - Anatomy, Unit II - Physiology, Unit III - Medicinal Botany	To acquire knowledge about histology of various parts of organism, their role in physiological processes and chemical content of plants and their medicinal properties.	Will get updated with internal structure and physiological role of organisms, primary and secondary metabolites, their medicinal properties and

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		traditional ayurvedic medicines.
ZOOLOGY		
Ecology and Wildlife Management	<ol style="list-style-type: none">1. To facilitate the learning of population ecology, its dynamics and regulatory factors important for its sustenance.2. To impart knowledge of different components of ecosystem and educate about essentials of coexistence of human beings with all other living organisms.3. To enlighten learners about the current status of wild life conservation in India in the light of guidelines from different relevant governing agencies vis-à-vis with adversity of poaching and biopiracy.	<ol style="list-style-type: none">1. This unit would allow learners to study about nature of animal population, specific factors affecting its growth and its impact on the population of other life form.2. Learners will grasp the concept of interdependence and interaction of physical, chemical and biological factors in the environment and will lead to better understanding about implications of loss of fauna specifically on human being, erupting spur of desire for conservation of all flora and fauna.3. Learners would be inspired to choose career options in the field of wild life conservation, research, photography and ecotourism.
Nutrition, Public Health and Hygiene	<ol style="list-style-type: none">1. Learners understand the importance of balanced diet and essential nutrients of food at different stages of life2. To impart knowledge about source, quantum and need for conservation of fast depleting water resource and essentials of	<ol style="list-style-type: none">1. Healthy dietary habits would be inculcated in the life style of learners in order to prevent risk of developing health hazards in younger generation due to faulty eating habits.2. Promoting optimum conservation of water, encouragement for

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	<p>maintaining proper sanitation, hygiene and optimizing use of electronic gadgets.</p> <p>3. To educate learners about causes, symptoms and impact of stress related disorders and infectious diseases</p>	<p>maintaining adequate personal hygiene, optimum use of electronic gadgets, avoiding addiction, thus facilitating achievement of the goal of healthy young India in true sense.</p> <p>3. Learners will be able to promptly recognize stress related problems at initial stages and would be able to adopt relevant solutions which would lead to psychologically strong mind set promoting positive attitude important for academics and would be able to acquire knowledge of cause.</p>
CHEMISTRY		
<p>Paper I General Chemistry</p> <ol style="list-style-type: none"> 1. Gaseous state 2. Chemical Equilibrium and thermodynamic parameters 3. Concept of Qualitative Analysis Acid Base Theories 4. Chemistry of Aliphatic Hydrocarbons <p>Paper II General Chemistry</p> <ol style="list-style-type: none"> 1. Ionic equilibria, Molecular Spectroscopy Solid State Chemistry 2. Chemical bond and Reactivity Oxidation Reduction Chemistry 3. Stereochemistry II: Cycloalkanes and 	<ol style="list-style-type: none"> 1. Principles of thermodynamics and the feasibility of reactions 2. Position of equilibrium in common chemical reactions 3. Behavior of liquids and their properties. 4. Principles of periodicity of properties of elements 5. Properties of main group elements 6. Classification and nomenclature of common organic compounds. 7. Bonding and structure of organic compounds. 8. Mechanisms of common organic reactions 9. Stereochemical outcomes of 	<ol style="list-style-type: none"> 1. Apply the principles of thermodynamics and predict the feasibility of reactions 2. Predict the position of equilibrium in common chemical reactions 3. Predict the behavior of liquids and their properties. 4. Apply the principles of periodicity of properties of elements 5. Compare and predict the properties of main group elements 6. Classify and name common organic compounds. 7. Predict bonding and structure of organic

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Conformational Analysis 4. Aromatic hydrocarbons	common organic reactions	compounds. 8. Draw mechanisms of common organic reactions 9. Predict stereochemical outcomes of common organic reactions.
Practical 1. Preparation of solutions 2. Commercial analysis 3. Titration using double indicator 4. Gravimetric analysis 5. Purification of any two organic compounds by recrystallization 6. Chromatography 7. Chemical Kinetics 8. Inorganic qualitative analysis 9. Redox titration 10. Characterization of organic compound	1. Preparation and standardisation of solutions 2. Titrations using suitable indicators 3. Impurities of commercial acid samples 4. Purification of a mixture of organic compounds 5. Chromatography for separation 6. Thermodynamic parameters like rate constants and enthalpy of dissolution 7. Buffers of different concentrations and find their pH using pH meter 8. Concentrations of solutions using colorimeter 9. Cations and anions in a binary salt mixture using semimicro inorganic qualitative analysis. 10. Characterisation of organic compounds	1. Prepare and standardise solutions 2. Titrate solutions using suitable indicators 3. Determine purities of commercial acid samples 4. Purify a mixture of organic compounds 5. Use chromatography for separation 6. Determine thermodynamic parameters like rate constants and enthalpy of dissolution 7. Prepare buffers of different concentrations and find their pH using pH meter 8. Determine concentrations of solutions using colorimeter 9. Identify cations and anions in a binary salt mixture using semimicro inorganic qualitative analysis. 10. Characterise and identify organic compounds
MATHEMATICS		
Maths 1 (Calculus II) Unit I: Series Unit II: Continuous functions & Differentiation Unit III: Applications of	1. To study about series and convergence of Series by using different tests. 2. To study about derivative of a function, necessary condition	1. Student will be able to determine convergence of a series and able to apply the concept in various branches of science.

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differentiation	<p>for differentiation, nth derivatives.</p> <p>3. To study application of derivatives in various fields, for example: to find Maxima and minima of a function, mean value theorems etc.</p>	<p>2. Student will be able to use concept of differentiation completely and shall be able to apply derivatives in various field of sciences</p>
<p>Maths II (Linear Algebra)</p> <p>Unit 1: System of Linear Equations & Matrices</p> <p>Unit II: Vector spaces</p> <p>Unit III: Basis & Linear transformations</p>	<p>1. To understand the matrix form of representation of a system of linear equations whose solution sets are geometrically represented as points, lines, & planes in two and three dimensions.</p> <p>2. To understand matrix algebra and the Gaussian elimination technique for bringing a matrix into its row echelon form and hence develop a technique to solve a system of linear equations.</p> <p>3. To know the concept of Vector Spaces and Subspaces and their examples.</p> <p>4. To understand linearly dependent and independent vectors in a Vector Space.</p> <p>5. To understand concept of basis of a vector space.</p> <p>6. To determine basis of finite dimensional vector spaces.</p> <p>7. To understand dimension of a finite dimensional Vector Space and Subspaces.</p> <p>8. To understand concept of extension of a basis of a Subspace to the basis of a corresponding Vector Space.</p>	<p>1. Students will be able to understand the matrix form of representation of a system of linear equations whose solution sets are geometrically represented as points, lines, & planes in two and three dimensions.</p> <p>2. Students will be able to understand matrix algebra and the Gaussian elimination technique for bringing a matrix into its row echelon form and hence develop a technique to solve a system of linear equations.</p> <p>3. Students will be able to know the concept of Vector Spaces and Subspaces and their examples.</p> <p>4. Students will be able to understand linearly dependent and independent vectors in a Vector Space. Students will be able to understand concept of basis of a vector space.</p> <p>5. Students will be able to determine basis of finite dimensional vector spaces.</p>

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	9. To understand linear transformation as a function between two finite dimensional Vector Spaces	6. Students will be able to understand dimension of a finite dimensional Vector Space and Subspaces. 7. Students will be able to understand concept of extension of a basis of a Subspace to the basis of corresponding Vector Space. 8. Students will be able to evaluate the Kernel and Image of a linear transformation. 9. Students will be able to determine matrix of a linear transformation with respect to bases of domain and co-domain Vector Spaces.
FOUNDATION COURSE		
UNIT-I Globalisation, Liberalisation and privatisation. UNIT-II Human rights and fundamental rights. UNIT-III Environmental Problems. UNIT-IV Stress and conflict, aggression and violence. UNIT-V Management of stress and conflict.	1. By the end of this unit students are expected to understand the basic concepts of globalisation, liberalisation and privatization and its impact on agriculture and industry. 2. Students are expected to understand the origin, evolution and significance of basic human values along with fundamental rights given in the Indian constitution. 3. The students learn various issues regarding the environment such as pollution, ecology, sustainable development etc. 4. Students learn various causes	1. Students are able to understand the meaning of basic concepts related to globalisation and its impact on the Indian economy. 2. Students are made to understand the significance of basic human life and fundamental rights in the modern society. 3. Students are able to understand nature of environmental problems and their duty towards protection of the environment. 4. Students are able to explain the causes of

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	of stress and conflict, aggression and violence in the society. 5. Students are expected to understand strategies to manage stress and conflict.	stress, conflict, aggression and violence. 5. Students able to understand various techniques like Yoga, meditation, etc. as the tools to manage stress.
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**BACHELOR OF SCIENCE
COURSE OUTCOMES
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SEMESTER III		
PHYSICS		
Mechanics and Thermodynamics	To develop analytical abilities towards real world problems. To familiarize with current & recent scientific and technological developments. To enrich knowledge through problem solving, hand-on activities, study visits, projectsetc.	Understand the concepts of Mechanics & Properties of Matter and to apply them to problems. Comprehend the basic concepts of thermodynamics & its applications in physical situations. Learn about situations in low temperatures. Demonstrate tentative problem solving skills in above areas.
Vector Calculus & Analog Electrodynamics	Same as above	Understand the basic concepts of Mathematical Physics and their applications in physical situations. Understand the basic laws of Electrodynamics and be able to perform calculations using them. Understand the basic transistor biasing, operational amplifiers and their applications. Understand the basic concept of oscillators and be able to perform calculations using them. Demonstrate quantitative problem solving skill in all the topics covered.
Applied Physics – I	Same as above	Students will be exposed to contextual real life problems. Students will appreciate the role of Physics in Interdisciplinary Areas related

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		to Material Physics, Biophysics, and Acoustics etc. The learner will understand the scope of the subject in Industry & Research. Experimental learning opportunities will be faster. Will prompt creative thinking and spirit of inquiry.
Applied Physics – I	Same as above	Students will be exposed to contextual real life problems. Students will appreciate the role of Physics in Interdisciplinary Areas related to Material Physics, Biophysics, and Acoustics etc. The learner will understand the scope of the subject in Industry & Research. Experimental learning opportunities will be faster. Will prompt creative thinking and spirit of inquiry.
Practical	Same as above	Understand and practice skills while performing experiments. Understand the use of apparatus and handle them without fear and hesitation. Correlate Physics theory with practical application. Understand the concept of errors and their estimation.
ZOOLOGY		
Fundamentals of Genetics, Chromosomes and Heredity, Nucleic acids	<ol style="list-style-type: none">1. To introduce basic terms of genetics. To study Mendelian principles of inheritance and other forms and pattern of inheritance.2. To familiarize the learners with the structure, types and	<ol style="list-style-type: none">1. Learner shall comprehend and apply the principles of inheritance to study heredity. Learner will understand the concept of multiple alleles, linkage and crossing over.

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	<p>classification of chromosomes. To introduce the concept of sex determination and its types, sex influenced and sex limited genes.</p> <p>3. To introduce the learner to the classical experiments proving DNA as the genetic material. To make the learner understand the structure of nucleic acids and the concept of central dogma of molecular biology. To familiarize the learner with the concept of gene expression</p>	<p>2. Learner will comprehend the structure of chromosomes and its types. Learner shall understand the mechanisms of sex determination. Learner would be able to correlate the disorders linked to a particular sex chromosome.</p> <p>3. Learner will understand the importance of nucleic acids as genetic material. The learner shall comprehend and appreciate the regulation of gene expressions.</p>
Study of Nutrition and Excretion, Respiration and circulation, Control and coordination, Locomotion and Reproduction	<p>1. To introduce the concepts of physiology of nutrition, excretion and osmoregulation. To expose the learners to various nutritional apparatus, excretory and osmoregulatory structures in different classes of organisms.</p> <p>2. To introduce the concepts of physiology of respiration and circulation. To expose the learner to various respiratory and circulatory structures in different classes of organisms.</p> <p>3. To introduce the concepts of physiology of control and coordination and locomotion and reproduction. To expose the learner to various locomotory and reproductive structures in different classes of organisms</p>	<p>1. Learner would understand the increasing complexity of nutritional, excretory and osmoregulatory physiology in evolutionary hierarchy.</p> <p>2. Learner would be able to correlate the habit and habitat with nutritional, excretory and osmoregulatory structures. Comparative study of Nutritional Apparatus (structure and function).</p> <p>3. Learner would understand the increasing complexity of respiratory and circulatory physiology in evolutionary hierarchy. Learner would be able to correlate the habit and habitat with respiratory and circulatory structures. Comparative study of</p>

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		<p>Respiratory organs (structure and function).</p> <p>4. Learner would understand the process of control and coordination by nervous and endocrine regulation. Learner would be fascinated by various locomotory structures found in the animal kingdom. Learner would be acquainted with various reproductive strategies present in animals</p>
Ethology, Parasitology, Economic Zoology	<p>1. To equip learners with a sound knowledge of how animals interact with one another and their environment. To enable the learners to understand different behavioural patterns.</p> <p>2. To acquaint learners with the concepts of parasitism, their relationship with environment. To make learners aware about the modes of transmission of parasites. To disseminate information on economic aspects of zoology like apiculture, vermiculture, dairy science. To encourage young learners for selfemployment.</p>	<p>1. Learners would gain an insight into different types of animal behaviour and their role in biological adaptations.</p> <p>2. Learners would be sensitized to the feelings instrumental in social behavior.</p> <p>3. Learners would understand the general epidemiological aspects of parasites that affect humans and apply simple preventive measures for the same. Learners would comprehend the life cycle of specific parasites, the symptoms of the disease and its treatment.</p> <p>4. Learners would gain knowledge on animals useful to mankind and the means to make the most of it. Learners would learn the modern techniques in animal husbandry. Learners would</p>

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		be pursuing entrepreneurship as careers
CHEMISTRY		
<p>Paper I General Chemistry</p> <ol style="list-style-type: none">1. Chemical Thermodynamics-II2. Electrochemistry3. Chemical Bonding4. Reactions and reactivity of halogenated hydrocarbons5. Alcohols, phenols and epoxides <p>Paper II General Chemistry</p> <ol style="list-style-type: none">1. Chemical Kinetics-II2. Solutions3. Chemistry of Boron compounds4. Chemistry of Silicon and Germanium5. Chemistry of Nitrogen family6. Carbonyl Compounds <p>Paper III Basics of Analytical Chemistry</p> <ol style="list-style-type: none">1. Introduction to Analytical Chemistry and Statistical2. Treatment of analytical data-I3. Classical Methods of Analysis4. Instrumental Methods-I	<ol style="list-style-type: none">1. Thermodynamic parameters and their applications2. Principles of electrochemistry3. Principles of theories of bonding to different systems4. Reactivity of functionalised compounds like halides, alcohols, phenols, epoxides, carbonyl derivatives, carboxylic acids, sulphonic acids, amines, diazonium salts, organometallics and heterocyclics.5. Principles of chemical kinetics6. Thermodynamic principles to solution chemistry7. Chemistry of main group elements and transition metals8. Structure and bonding in coordination compounds9. Principles of solid state to determine structures of crystals10. Mechanisms involved in catalysis11. Behaviour of ions in aqueous medium12. Preparation of sample for analysis and selection of a suitable method like titrimetry, gravimetry, or instrumental for analysis13. Principles, construction and working of instruments14. Basis of separation techniques and use in techniques such as	<ol style="list-style-type: none">1. Enumerate and define the various thermodynamic parameters and explain their applications2. Apply the principles of electrochemistry to ionic solutions3. Describe and apply principles of theories of bonding to different systems4. Explain and predict reactions and reactivity of functionalised compounds like halides, alcohols, phenols, epoxides, carbonyl derivatives, carboxylic acids, sulphonic acids, amines, diazonium salts, organometallics and heterocyclics.5. Apply the principles of chemical kinetics and predict the effect of various factors on reaction rates.6. Apply thermodynamic principles to solution chemistry7. Describe chemistry of main group elements and transition metals8. Explain structure and bonding in coordination compounds9. Apply principles of solid state to determine structures

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	electrophoresis, chromatography etc. 15. Statistical methods to analytical data and Nature and extent of errors	of crystals 10. Describe mechanisms involved in catalysis 11. Explain behaviour of ions in aqueous medium 12. Identify and prepare a sample for analysis and select a suitable method like titrimetry, gravimetry, or instrumental for analysis 13. Describe the principles, construction and working of instruments 14. Describe the basis of separation techniques and use them in techniques such as electrophoresis, chromatography etc. 15. Apply statistical methods to analytical data and determine nature and extent of errors 16. Select a method of analysis 17. Decide how to identify a sample and prepare it for analysis 18. Select a procedure for analysis 19. Identify sources of possible errors in the results obtained.
Practical 1. To verify Ostwald's dilution law for weak acid conductometrically 2. To determine dissociation constant of weak acid conductometrically. 3. To determine the critical	1. Instrumental methods to determine thermodynamic parameters 2. Identification of cations and anions from a binary salt mixture 3. Crystallisation for purification 4. Synthesis and purify organic compounds	1. Use instrumental methods to determine thermodynamic parameters 2. Identify cations and anions from a binary salt mixture 3. Use crystallisation for purification 4. Synthesise and purify organic compounds

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<p>solution temperature (CST) of phenol - Water System.</p> <p>4. To determine the energy of activation of acid catalyzed hydrolysis of methyl acetate.</p> <p>5. To investigate the reaction between $K_2S_2O_8$ and KI with equal initial concentrations of the reactants</p> <p>6. To determine solubility of sparingly soluble salts (any two) conductometrically.</p> <p>7. Identification of cations in a given mixture and analytically separating them [From a mixture containing not more than two of the following: Pb(II), Ba(II), Ca(II), Sr (II), Cu(II), Cd(II), Mg(II), Zn(II), Fe(II), Fe(III), Ni(II), Co(II) Al(III), Cr(III)]</p> <p>8. Crystallisation of potassium iodate and to estimate its purity before and after the separation.</p> <p>9. Estimation of total hardness</p> <p>10. Investigation of the reaction between copper sulphate and sodium hydroxide (Standard EDTA solution to be provided to the learner).</p> <p>11. Short organic preparation and their purification.</p> <p>12. Gravimetric estimation</p> <p>13. Colorimetric determination</p> <p>14. Determination of buffer capacity of acid buffer and</p>	<p>5. Synthesis of complex compounds</p> <p>6. Analysis of a bifunctional organic compound</p> <p>7. Instrumental methods for analysis</p> <p>8. Paper chromatography for separation of cations</p>	<p>5. Synthesise complex compounds</p> <p>6. Analyse a bifunctional organic compound</p> <p>7. Use instrumental methods for analysis</p> <p>8. Use paper chromatography for separation of cations</p>
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basic buffer. 15. Estimation of Aspirin Gravimetric estimation of barium ions using K_2CrO_4 as precipitant		
MATHEMATICS		
MATHS I (CalculusIII) Unit I: Functions of several variables Unit II: Differentiation Unit III Applications	1. To study functions defined in- Dimension scalar and vector functions, their properties 2. To study differentiation of vector and scalar functions 3. To study Mean value theorems, and other applications of Vector and scalar functions	1. Students should be able to understand concept of 2- Dimensional curve and 3- D curve, Vector and scalar field 2. Students should be able to find derivatives of multivariable functions
Maths II (Algebra III) Unit I: Linear Transformations and Matrices Unit II: Determinants Unit III: Inner Product Spaces	1. To understand the rank – nullity theorem for linear transformations between finite dimensional Vector Spaces. 2. To understand linear isomorphism and know about isomorphic Vector Spaces. 3. To understand elementary matrices and its use to solve a matrix equation. 4. To understand the solution of a homogeneous linear system and solution of a non- homogeneous linear system in terms of matrices. 5. To understand the need of determinants for determining the nature of the solution set of two and three dimensional linear systems. 6. To understand determinants of two by two and three by three square matrices as area and volume generated by	1. Students will be able to understand the rank –nullity theorem for linear transformations between finite dimensional Vector Spaces. 2. Students will be able to understand linear Isomorphism and will be able to show isomorphism between isomorphic Vector Spaces. 3. Students will be able to use elementary matrices to solve a matrix equation. 4. Students will be able to find the solution of a homogeneous linear system and solution of a non- homogeneous linear system using matrices. 5. To understand the need of

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	<p>corresponding row /column vectors.</p> <p>7. To understand the properties of determinants.</p> <p>8. To understand inner product spaces. To understand Cauchy Schwarz inequality, triangle inequality and Pythagoras theorem for vectors in a normed vector space where the norm is obtained from the definition of inner product on that Vector Space.</p> <p>9. To understand orthogonality of vectors of a normed Vector space and projection of Vectors about a line.</p> <p>10. To understand orthogonal complements and the Gram Schmidt Orthogonalization process to obtain an orthogonal basis.</p>	<p>determinants for determining the nature of the solution set of two and three dimensional linear systems</p> <p>6. To understand determinants of two by two and three by three square matrices as area and volume generated by corresponding row /column vectors.</p> <p>7. To understand the properties of determinants. Students will be able to understand inner product inner product function. Students will be able to verify Cauchy Schwarz inequality, triangle inequality and Pythagoras theorem for vectors in a normed vector space where the norm is obtained from the definition of inner product on that Vector Space.</p> <p>8. Students will be able to check orthogonality of vectors of a normed Vector space and determine projection of Vectors about a line.</p> <p>9. Students will be able to determine orthogonal complements and obtain an orthogonal basis from a given basis using the Gram Schmidt Orthogonalization process.</p>
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<p>Maths III (DISCRETE MATHEMATICS)</p> <p>Unit I: Permutations and Recurrence Relation</p> <p>Unit II: Preliminary Counting</p> <p>Unit III: Advanced Counting</p>	<ol style="list-style-type: none">1. To study recurrence relation and to study permutation as a function2. To study counting principles	<p>Students will be able to apply counting principles in solving mathematical problems</p>
FOUNDATION COURSE		
<ol style="list-style-type: none">1. Human Rights Violations2. Environmental Concern3. Science and Technology4. Soft skills for effective personal communication5. Project Work	<ol style="list-style-type: none">1. By the end of this module, students are acquainted and thorough with rights, liabilities and social context of various vulnerable groups in India such as SCs, STs, Women, Minorities etc.2. Students should be able to understand Disasters, various kinds and methods of Disaster management3. Students learn about development of science, relevance of science and technology in society and how to combat superstitions using scientific knowledge.4. Students understand basic concepts of communication and soft skill.5. Students have to do a project on poster presentation, PPT presentation or street play on any contemporary issues. They can do any other community outreach Program or even an interview with a famous scientist or a visit to a museum, science laboratory, orphanage	<ol style="list-style-type: none">1. Students are introduced to basic reasons of Human Right Violations and their resistance, legally and constitutionally.2. Students are able to analyse situations which bring forth disasters and how to effectively manage them3. Students are able to appreciate the application of science and develop a scientific temper.4. Students are expected to be have understanding of basic level communication skills5. Students get hands on experience to many issues which they are learning in class rooms.

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	old age home etc	
SEMESTER IV		
PHYSICS		
Optics & DigitalElectronics	To develop analytical abilities towards real world problems. To familiarize with current & recent scientific and technological developments. To enrich knowledge through problem solving, hand-on activities, study visits, projectsetc.	Understand the Diffraction & Polarization processesand their applications in physical situations. Understand the applications of Interference in designing and working of interferometers. Understand the resolving power of different optical instruments. Understand the working of digital circuits. Use of IC555 timer for various timing applications. Demonstrate quantitative problem skills in all the topics covered.
Quantum Mechanics	Same as above	Understand the postulates of Quantum Mechanics and its importance in explaining significant phenomena in Physics. Demonstrate quantitative problem solving skills in all the topics covered.
Geophysics, Microprocessors & RadiationPhysics	Same as above	Understand the structure of earth and the effects of earth's magnetic field onreal life situations. Understanding the working of Microprocessor and Basic Assembly Language Programming. Understand the basics of RadiationScience and the application of the same in communication.
Geophysics, Microprocessors & RadiationPhysics	Same as above	Understand the structure of earth and the effects of earth's

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		magnetic field on real life situations. Understanding the working of Microprocessor and Basic Assembly Language Programming. Understand the basics of Radiation Science and the application of the same in communication.
Practical	Same as above	Understand & practice skills while performing experiments. Understand the use of apparatus and handle them without fear and hesitation. Correlate Physics theory concepts to practical application. Understand the theory of errors and their estimation.
ZOOLOGY		
Origin and Evolution of Life, Population and Evolutionary Genetics, Scientific Attitude, Methodology, Scientific Writing and Ethics in Scientific Research	<ol style="list-style-type: none">1. To impart scientific knowledge about how life originated and evolved on our planet.2. To develop knowledge and understanding of genetic variability within a population and how the change in the gene pool leads to evolution of species.3. To inculcate scientific temperament in the learner	<ol style="list-style-type: none">1. Learner will ponder and critically view the different theories of evolution. Learner will gain insight about origin of life.2. Learner would understand the forces that cause evolutionary changes in natural populations. Learner would comprehend the mechanisms of speciation. Learner will be able to distinguish between microevolution, macroevolution and megaevolution.3. The learner shall develop qualities such as critical thinking and analysis. The

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		learner will imbibe the skills of scientific communication and he/she will understand the ethical aspects of research
Cell Biology	<ol style="list-style-type: none">1. To study the structural and functional organization of cell with an emphasis on nucleus, plasma membrane and cytoskeleton.2. To acquaint the learner with ultrastructure of cell organelles and their functions.3. To give learner insight into the structure of biomolecules, and their role in sustenance of life	<ol style="list-style-type: none">1. Learner would acquire insight of transport mechanisms for the maintenance and composition of cell.2. Learner would appreciate the intricacy of endomembrane system.3. The learner will realize the importance of biomolecules and their clinical significance
Comparative Embryology, Aspects of Human Reproduction, Pollution and its effect on organisms	<ol style="list-style-type: none">1. To acquaint the learner with key concepts of embryology.2. To acquaint the learners with different aspects of human reproduction.3. To provide a panoramic view of impact of human activities leading to pollution and its implications	<ol style="list-style-type: none">1. Learner will be able to understand and compare the different pre- embryonic stages. Learners will be able to understand human reproductive physiology. The learners will be sensitized about the adverse effects of pollution and measures to control it
CHEMISTRY		
Paper I General Chemistry <ol style="list-style-type: none">1. Electrochemistry-II2. Comparative Chemistry of the transition metals3. Coordination Chemistry4. Carboxylic Acids and their Derivatives5. Sulphonic acids: [4L]	<ol style="list-style-type: none">1. Thermodynamic parameters and their applications2. Principles of electrochemistry3. Principles of theories of bonding to different systems4. Reactivity of functionalised compounds like halides, alcohols, phenols, epoxides, carbonyl derivatives, carboxylic acids, sulphonic acids, amines,	<ol style="list-style-type: none">1. Enumerate and define the various thermodynamic parameters and explain their applications2. Apply the principles of electrochemistry to ionic solutions3. Describe and apply principles of theories of bonding to different systems

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<p>Paper II General Chemistry</p> <ol style="list-style-type: none">1. Solid State2. Catalysis3. Ions in aqueous medium4. Uses and Environmental Chemistry of volatile Oxides and oxo-acids5. Nitrogen containing compounds and heterocyclic compounds <p>Paper III Basics of Analytical Chemistry</p> <ol style="list-style-type: none">1. Separation Techniques in Analytical Chemistry2. Instrumental Methods-II3. Statistical treatment of analytical data --II	<p>diazonium salts, organometallics and heterocyclics.</p> <ol style="list-style-type: none">5. Principles of chemical kinetics6. Thermodynamic principles to solution chemistry7. Chemistry of main group elements and transition metals8. Structure and bonding in coordination compounds9. Principles of solid state to determine structures of crystals10. Mechanisms involved in catalysis11. Behaviour of ions in aqueous medium12. Preparation of sample for analysis and selection of a suitable method like titrimetry, gravimetry, or instrumental for analysis13. Principles, construction and working of instruments14. Basis of separation techniques and use in techniques such as electrophoresis, chromatography etc.15. Statistical methods to analytical data and Nature and extent of errors	<ol style="list-style-type: none">4. Explain and predict reactions and reactivity of functionalised compounds like halides, alcohols, phenols, epoxides, carbonyl derivatives, carboxylic acids, sulphonic acids, amines, diazonium salts, organometallics and heterocyclics.5. Apply the principles of chemical kinetics and predict the effect of various factors on reaction rates.6. Apply thermodynamic principles to solution chemistry7. Describe chemistry of main group elements and transition metals8. Explain structure and bonding in coordination compounds9. Apply principles of solid state to determine structures of crystals10. Describe mechanisms involved in catalysis11. Explain behaviour of ions in aqueous medium12. Identify and prepare a sample for analysis and select a suitable method like titrimetry, gravimetry, or instrumental for analysis13. Describe the principles, construction and working of instruments
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		<p>14. Describe the basis of separation techniques and use them in techniques such as electrophoresis, chromatography etc.</p> <p>15. Apply statistical methods to analytical data and determine nature and extent of errors</p> <p>16. Select a method of analysis</p> <p>17. Decide how to identify a sample and prepare it for analysis</p> <p>18. Select a procedure for analysis</p> <p>19. Identify sources of possible errors in the results obtained.</p>
<p>Practical</p> <p>1. To determine standard EMF and the standard free energy change of Daniel cell potentiometrically. To determine the amount of HCl in the given sample potentiometrically.</p> <p>2. Compare the strengths of HCl and H₂SO₄ by studying kinetics of acid hydrolysis of methyl acetate.</p> <p>3. Inorganic preparation – Nickel dimethyl glyoxime using microscale method.</p> <p>4. Complex cation – <i>Tris</i> (ethylene diamine) nickel (II) thiosulphate.</p> <p>5. Complex anion – Sodium Hexanitrocobaltate (III) The aim of this experiment is to</p>	<p>1. Instrumental methods to determine thermodynamic parameters</p> <p>2. Identification of cations and anions from a binary salt mixture</p> <p>3. Crystallisation for purification</p> <p>4. Synthesis and purify organic compounds</p> <p>5. Synthesis of complex compounds</p> <p>6. Analysis of a bifunctional organic compound</p> <p>7. Instrumental methods for analysis</p> <p>8. Paper chromatography for separation of cations</p>	<p>1. Use instrumental methods to determine thermodynamic parameters</p> <p>2. Identify cations and anions from a binary salt mixture</p> <p>3. Use crystallisation for purification</p> <p>4. Synthesise and purify organic compounds</p> <p>5. Synthesise complex compounds</p> <p>6. Analyse a bifunctional organic compound</p> <p>7. Use instrumental methods for analysis</p> <p>8. Use paper chromatography for separation of cations</p>

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<p>understand the preparation of a soluble cation (sodium) and a large anion hexanitrocobaltate(III) and its use to precipitate a large cation (potassium)</p> <p>6. Inorganic salt – Calcium or magnesium oxalate using PFHS technique</p> <p>7. Qualitative Analysis of bi-functional organic compounds on the basis of</p> <p>8. Tools of Analytical Chemistry-II Paper chromatography</p> <p>9. Conductometric titration:</p> <p>10. Potentiometry</p> <p>11. Gravimetric estimation</p>		
MATHEMATICS		
<p>Maths I (Calculus-IV)</p> <p>Unit I: Riemann Integration</p> <p>Unit II: Indefinite Integrals and Improper Integrals</p> <p>Unit III: Beta and Gamma Functions And Applications</p>	<p>1. To study how the concept of partition is used for Integration</p> <p>2. To study Fundamental theorem of Calculus and its application</p> <p>3. To study improper integrals, their test of convergence, Special functions</p>	<p>1. Students should be able to understand concept of Riemann Integration</p> <p>2. Students should be able to determine length of the curve, area and volume of surfaces. Students will be able to use improper integrals in their problem solving</p>
<p>Maths II</p> <p>ALGEBRA IV</p> <p>Unit I Groups and Subgroups</p> <p>Unit II Cyclic Groups and Cyclic subgroups</p> <p>Unit III Lagrange's Theorem and Group Homomorphism</p>	<p>1. To understand groups, subgroups, abelian and non abelian groups and their examples.</p> <p>2. To understand geometry of the dihedral groups of order 3 and 4.</p> <p>3. To understand the concept of order of an element of a group finite and infinite groups,</p>	<p>1. Students will be able to show that underlying binary operation defined on a non empty set makes it a group or subgroup</p> <p>2. Students will be able to find out whether a group is abelian or non abelian groups</p> <p>3. Students will be able to give examples of different types of groups by defining a binary</p>

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	<p>generator of cyclic groups, Center of a group.</p> <ol style="list-style-type: none">To understand cyclic groups and cyclic subgroups.To understand groups of prime order are cyclic.To understand that a finite cyclic group has one and only one subgroup of an order which is a divisor of order of that cyclic group.To understand and be able to check homomorphism between groups.To check isomorphism between groups.	<p>operation on a non-empty set.</p> <ol style="list-style-type: none">Students will be able to understand geometry of the dihedral groups of order 3 and 4.To understand the concept of order of an element of a group.Students will be able to check whether a given group is a cyclic group or a cyclic subgroup.Students will be able to understand groups of prime order are cyclic.Students will be able to understand that a finite cyclic group has one and only one subgroup of an order which is a divisor of order of that cyclic group and hence determine all subgroups of a cyclic groupStudents will be able to check homomorphism between groups.Students will be able to check isomorphism between groups.Students will be able to determine kernel of a homomorphism and also image of a homomorphism between groups.Students will be able to use the Lagrange's theorem for groups to determine its subgroups.
<p>Maths III Ordinary differential equations Unit I: First order First degree</p>	<p>To study differential equations and their solutions and applications</p>	<p>Students should be able to apply First order and second order Differential equations and apply it in Physical Sciences and</p>

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Differential equations UNIT II: Second order Linear Differential equations Unit III: Linear System of Ordinary Differential Equations		biological Sciences
FOUNDATION COURSE		
1. Human Rights 2. Environmental Concern 3. Science and Technology 4. Preparation for competitive examination 5. Project Work	1. By the end of this module, students are acquainted and thorough with modern socio- legal concepts like Consumer Protection, RTI, PIL etc. 2. Students are introduced to various concept environmental studies and protection like, anthropocentrism, eco centrism, bio centrism, co- feminisms etc. 3. Students understand relevance of various technologies such as laser information technology, space technology etc. and its scientific base. 4. Students are introduced to basic soft skills and information about competitive examination 5. Students have to do a project on poster presentation, PPT presentation or street play on any contemporary issues. They can do any other community outreach Program or even an interview with a famous scientist or a visit to a museum, science laboratory, orphanage old age home etc	1. Students are introduced to basic Human Rights Protection available to a new age citizens. 2. Students are expected to develop a sophisticated approach towards environment and concern for nature. 3. Students are able to appreciate the application of science and develop a scientific temper. 4. Students are expected to be have understanding of basic level communication skills and general idea about competitive examinations which they can attempt. 5. Students get hands on experience to many issues which they are learning in class rooms.

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**BACHELOR OF SCIENCE
COURSE OUTCOMES
T.Y.B.Sc**

SEMESTER V			
CHEMISTRY			
Paper I Chemistry	Physical	1. Principles of spectroscopy to describe properties of molecules	1. Apply principles of spectroscopy to describe properties of molecules
Paper II Chemistry	Inorganic	2. Colligative properties to determine parameters of molecules	2. Use Colligative properties to determine parameters of molecules
Paper III Chemistry	Organic	3. Theories of classical and quantum mechanics	3. Compare theories of classical and quantum mechanics
Paper IV Chemistry	Analytical	4. Importance of symmetry in Chemistry	4. Explain the importance of symmetry in Chemistry
Paper V Drugs and Dyes	Synthetic	5. Describe superconductivity	5. Describe superconductivity
		6. Chemistry of inner transition elements	6. Describe the chemistry of inner transition elements
		7. Reactivity in metal complexes	7. Explain reactivity in metal complexes
		8. Principles of organic reaction mechanism to synthesis of organic compounds	8. Apply the principles of organic reaction mechanism to synthesis of organic compounds
		9. IUPAC names for compounds	9. Write IUPAC names for compounds
		10. Green chemistry principles	10. Use green chemistry principles
		11. Spectroscopic data to elucidate structure of organic compounds	11. Apply spectroscopic data to elucidate structure of organic compounds
		12. Quality concepts to industry	12. Apply quality concepts to industry
		13. Titrimetry, optical methods, TGA etc for analysis of compounds	13. Apply titrimetry, optical methods, TGA etc for analysis of compounds

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Practical	<ol style="list-style-type: none">1. Colligative properties2. Chemical Kinetics3. Surface phenomena4. Potentiometry Conductometry5. Conductometry6. pH-metry7. Inorganic preparations8. Percentage purity of the given water soluble salt and qualitative detection9. Separation of Binary solid-solid mixture	<ol style="list-style-type: none">1. Measure colligative properties2. Perform instrumental methodsof analysis3. Synthesise inorganic compounds and determine percentage purityof the given sample4. Separate components of a binary mixture of organic compounds
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SEMESTER VI


CHEMISTRY

Paper I: Physical Chemistry	1. Principles of spectroscopy to describe properties of molecules	1. Apply principles of spectroscopy to describe properties of molecules
Paper II: Inorganic Chemistry	2. Colligative properties to determine parameters of molecules	2. Use Colligative properties to determine parameters of molecules
Paper III: Organic Chemistry	3. Theories of classical and quantum mechanics	3. Compare theories of classical and quantum mechanics
Paper IV: Analytical Chemistry	4. Importance of symmetry in Chemistry	4. Explain the importance of symmetry in Chemistry
Paper V: Synthetic Drugs and Dyes	5. Describe superconductivity	5. Describe superconductivity
	6. Chemistry of inner transition elements	6. Describe the chemistry of inner transition elements
	7. Reactivity in metal complexes	7. Explain reactivity in metal complexes
	8. Principles of organic reaction mechanism to synthesis of organic compounds	8. Apply the principles of organic reaction mechanism to synthesis of organic compounds
	9. IUPAC names for compounds	9. Write IUPAC names for compounds
	10. Green chemistry principles	10. Use green chemistry principles
	11. Spectroscopic data to elucidate structure of organic compounds	
	12. Quality concepts to industry	

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	13. Titrimetry, optical methods, TGA etc for analysis of compounds	11. Apply spectroscopic data to elucidate structure of organic compounds 12. Apply quality concepts to industry 13. Apply titrimetry, optical methods, TGA etc for analysis of compounds
Practical	1. Colligative properties 2. Chemical Kinetics 3. Surface phenomena 4. Potentiometry Conductometry 5. Conductometry 6. pH-metry 7. Inorganic preparations 8. Percentage purity of the given water soluble salt and qualitative detection 9. Separation of Binary solid-solid mixture	1. Measure colligative properties 2. Perform instrumental methods of analysis 3. Synthesise inorganic compounds and determine percentage purity of the given sample 4. Separate components of a binary mixture of organic compounds

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BACHELOR OF SCIENCE (COMPUTER SCIENCE)

COURSE OUTCOMES

F.Y.B.SCI (CS)

SEMESTER I		
SYLLABUS	OBJECTIVES	OUTCOMES
Computer Organization and Architecture	To understand the structure and operation of modern processors and their instruction sets	<ol style="list-style-type: none">1. To understand the basics of digital electronics needed for computers2. To understand the basics of instruction set architecture for reduced and complex instruction sets3. To understand the basics of processor structure and operation4. To understand how data is transferred between the processor and I/O devices
Programming with Python- I	To introduce various concepts of programming to the students using Python.	<ol style="list-style-type: none">1. Students should be able to understand the concepts of programming before actually starting to write programs.2. Students should be able to develop logic for Problem Solving.3. Students should be able to apply the problem solving skills using syntactically simple language i.e. Python (version: 3.X or higher)
Free and Open Source Software	Open Source has acquired a prominent place in software industry. Having knowledge of Open Source and its related technologies is an essential for	<ol style="list-style-type: none">1. Upon completion of this course, students should have a good working knowledge of Open Source ecosystem, its





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	Computer Science student. This course introduces Open Source methodologies and ecosystem to students.	use, impact and importance. 2. This course shall help student to learn Open Source methodologies, case studies with real life examples.
Database Management Systems	To introduce the concept of the DBMS with respect to the relational model, to specify the functional and data requirements for a typical database application and to understand creation, manipulation and querying of data in databases	1. Students should be able to evaluate business information problem and find the requirements of a problem in terms of data. 2. Students should be able to design the database schema with the use of appropriate data types for storage of data in database. 3. Students should be able to create, manipulate, query and back up the databases
Discrete Mathematics	To familiarize the prospective learners with mathematical structures that are fundamentally discrete. This course introduces sets and functions, forming and solving recurrence relations and different counting principles. These concepts are useful to study or describe objects or problems in computer algorithms and programming languages.	1. To provide overview of theory of discrete objects, starting with relations and partially ordered sets. 2. Study about recurrence relations, generating function and operations on them. 3. Give an understanding of graphs and trees, which are widely used in software. 4. Provide basic knowledge about models of automata theory and the corresponding formal languages
Descriptive Statistics and Introduction to Probability	To familiarize students with basics of Statistics. This will be essential for prospective researchers and professionals	1. Enable learners to know descriptive statistical concepts 2. Enable study of probability

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	to know these basics.	concept required for Computer learners
Soft Skills Development	To help learners develop their soft skills and develop their personality together with their technical skills. Developing professional, social and academic skills to harness hidden strengths, capabilities and knowledge equip them to excel in real work environment and corporate life. Understand various issues in personal and profession communication and learn to overcome them	<ol style="list-style-type: none">1. To know about various aspects of soft skills and learn ways to develop personality2. Understand the importance and type of communication in personal and professional environment.3. To provide insight into much needed technical and non-technical qualities in career planning.4. Learn about Leadership, team building, decision making and stress management
SEMESTER II		
Programming with C	To provide a comprehensive study of the C programming language, stressing upon the strengths of C, which provide the students with the means of writing modular, efficient, maintainable, and portable code	<ol style="list-style-type: none">1. Students should be able to write, compile and debug programs in C language.2. Students should be able to use different data types in a computer program.3. Students should be able to design programs involving decision structures, loops and functions.4. Students should be able to explain the difference between call by value and call by reference5. Students should be able to understand the dynamics of memory by the use of

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		pointers. Students should be able to use different data structures and create/update basic data files
Programming with Python – II	To explore the style of structured programming to give the idea to the students how programming can be used for designing real-life applications by reading/writing to files, GUI programming, interfacing database/networks and various other features.	<ol style="list-style-type: none">1. Students should be able to understand how to read/write to files using python.2. Students should be able to catch their own errors that happen during execution of programs.3. Students should get an introduction to the concept of pattern matching.4. Students should be made familiar with the concepts of GUI controls and designing GUI applications.5. Students should be able to connect to the database to move the data to/from the application. Students should know how to connect to computers, read from URL and send email.
Linux	This course introduces various tools and techniques commonly used by Linux Programrs, system administrators and end users to achieve their day to day work in Linux environment. It is designed for computer students who have limited or no previous exposure to Linux.	<ol style="list-style-type: none">1. Upon completion of this course, students should have a good working knowledge of Linux, from both a graphical and command line perspective, allowing them to easily use any Linux distribution.2. This course shall help student to learn advanced subjects in computer science practically.3. Student shall be able to

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		progress as a Developer or Linux System Administrator using the acquired skill set
Data Structures	To explore and understand the concepts of Data Structures and its significance in programming. Provide and holistic approach to design, use and implement abstract data types. Understand the commonly used data structures and various forms of its implementation for different applications using Python.	<ol style="list-style-type: none">1. Learn about Data structures, its types and significance in computing2. Explore about Abstract Data types and its implementation3. Ability to program various applications using different data structure in Python
Calculus	To have a grasp of important concepts of Calculus in a scientific way. It covers topics from as basic as definition of functions to partial derivatives of functions in a gradual and logical way. The learner is expected to solve as many examples as possible to get compete clarity and understanding of the topics covered.	<ol style="list-style-type: none">1. Understanding of Mathematical concepts like limit, continuity, derivative, integration offunctions.2. Ability to appreciate real world applications which uses these concepts.3. Skill to formulate a problem through Mathematical modelling and simulation.
Statistical Methods and Testing of Hypothesis	To familiarize students with basics of Statistics. This will be essential for prospective researchers and professionals to know these basics.	<ol style="list-style-type: none">1. Enable learners to know descriptive statistical concepts2. Enable study of probability concept required for Computer learners
Green Technologies	To familiarize with the concept of Green Computing and Green IT infrastructure for making computing and information system environment sustainable. Encouraging optimized software	<ol style="list-style-type: none">1. Learn about green IT can be achieved in andby hardware, software, and network communication and data centre operations.2. Understand the strategies,

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	and hardware designs for development of Green IT Storage, Communication and Services. To highlight useful approaches to embrace green IT initiatives	frameworks, processes and management of green IT
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BACHELOR OF SCIENCE (COMPUTER SCIENCE)

COURSE OUTCOMES

S.Y.B.SCI (CS)

SEMESTER III		
Theory of Computation	To provide the comprehensive insight into theory of computation by understanding grammar, languages and other elements of modern language design. Also to develop capabilities to design and develop formulations for computing models and identify its applications in diverse areas.	<ol style="list-style-type: none">1. Understand Grammar and Languages2. Learn about Automata theory and its application in Language Design3. Learn about Turing Machines and Pushdown Automata Understand Linear Bound Automata and its applications
Core Java	To teach the learner how to use Object Oriented paradigm to develop code and understand the concepts of Core Java and to cover-up with the pre-requisites of Core java	<ol style="list-style-type: none">1. Object oriented programming concepts using Java.2. Knowledge of input, its processing and getting suitable output.3. Understand, design, implement and evaluate classes and applets. Knowledge and implementation of AWT package.
Operating System	To understand proper working of operating system. To provide a sound understanding of Computer operating system, its structures, functioning and algorithms	<ol style="list-style-type: none">1. To provide a understanding of operating system, its structures and functioning2. Develop and master understanding of algorithms used by operating systems for various purposes
Database Management Systems	To develop understanding of concepts and techniques for data	<ol style="list-style-type: none">1. Master concepts of stored procedure and triggers and





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	management and learn about widely used systems for implementation and usage.	its use. 2. Learn about using PL/SQL for data Management 3. Understand concepts and implementations of transaction management and crash recovery
Combinatorics and Graph Theory	To give the learner a broad exposure of combinatorial Mathematics through applications especially the Computer Science applications	1. Appreciate beauty of combinatorics and how combinatorial problems naturally arise in many settings. 2. Understand the combinatorial features in real world situations and Computer Science applications. 3. Apply combinatorial and graph theoretical concepts to understand Computer Science concepts and apply them to solve problems
Physical Computing and IOT Programming	To learn about SoC architectures; Learn how Raspberry Pi. Learn to program Raspberry Pi. Implementation of internet of Things and Protocols.	1. Enable learners to understand System on Chip Architectures. 2. Introduction and preparing Raspberry Pi with hardware and installation. 3. Learn physical interfaces and electronics of Raspberry Pi and program them using practical's 4. Learn how to make consumer grade IoT safe and secure with proper use of protocols.
Skill Enhancement: Web	To provide insight into emerging	1. To design valid, well-

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Programming	technologies to design and develop state of - the art web applications using client- side scripting, server-side scripting, and database connectivity	formed, scalable, and meaningful pages using emerging technologies. 2. Understand the various platforms, devices, display resolutions, viewports, and browsers that render websites 3. To develop and implement client-side and server-side scripting language programs. 4. To develop and implement Database Driven Websites. Design and apply XML to create a markup language for data and document centric applications.
SEMESTER IV		
Fundamentals of Algorithms	To understand basic principles of algorithm design and why algorithm analysis is important. To understand howto implement algorithms in Python. To understand how to transform new problems into algorithmic problems with efficient solutions. To understand algorithm design techniques for solving different problems	1. Understand the concepts of algorithms for designing good program 2. Implement algorithms using Python
Advanced Java	To explore advanced topic of Java programming for solving problems.	1. Understand the concepts related to JavaTechnology 2. Explore and understand use of Java ServerProgramming
Computer Networks	To conceptualize and understand the framework and working of	1. Learner will be able to understand the concepts of

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	communication networks. And on completion, be able to have a firm grip over this very important segment of Internet.	networking, which are important for them to be known as a 'networking professionals'. 2. Useful to proceed with industrial requirements and International vendor certifications.
Software Engineering	Software engineering is the systematic approach to the development, operation, maintenance and retirement of software. The objective is to apply science and mathematics by which the capabilities of computer equipment are made useful to man via computer programs, procedures, and associated documentations.	The practical knowledge provides an understanding of how hardware functions, how to utilize the power of programming languages and tools while developing software.
Linear Algebra using Python	To offer the learner the relevant linear algebra concepts through computer science applications.	1. Appreciate the relevance of linear algebra in the field of computer science. 2. Understand the concepts through program implementation 3. Instil a computational thinking while learning linear algebra
.NET Technologies	To explore .NET technologies for designing and developing dynamic, interactive and responsive web applications	1. Understand the .NET framework 2. Develop a proficiency in the C# programming language 3. Proficiently develop ASP.NET web applications using C# 4. Use ADO.NET for data persistence in a web

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		application
Skill Enhancement: Android Developer Fundamentals	To provide the comprehensive insight into developing applications running on smart mobile devices and demonstrate programming skills for managing task on mobile. To provide systematic approach for studying definition, methods and its applications for Mobile-Appdevelopment	<ol style="list-style-type: none">1. Understand the requirements of Mobile programming environment.2. Learn about basic methods, tools and techniques for developing Apps3. Explore and practice App development on Android Platform4. Develop working prototypes of working systems for various uses in daily lives

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BACHELOR OF SCIENCE (COMPUTER SCIENCE)

COURSE OUTCOMES

T.Y.B.SCI (CS)

SEMESTER V

SYLLABUS	OBJECTIVES	OUTCOME
Artificial Intelligence	Understand the foundations, history, and state of the art of AI. Learn about intelligent agents, their environments, and the structure of agents. Explore different problem-solving strategies, including uninformed and informed search techniques. Gain knowledge of knowledge representation and reasoning methods, and apply them to solve complex problems. Develop an understanding of machine learning techniques, including classification, regression, and ensemble learning.	Demonstrate knowledge of the foundations and key concepts in the field of AI. Analyze and design intelligent agents for specific environments. Apply problem-solving techniques and algorithms to find solutions to different types of problems. Construct knowledge representation models and use reasoning techniques to derive new knowledge. Implement machine-learning algorithms and evaluate their performance for classification and regression tasks
Information & Network Security	Familiarize students with the fundamental principles, models, and mechanisms of computer and network security Explore various encryption techniques, including symmetric and public-key cryptography, and understand their strengths, weaknesses, and real-world applications. Examine different authentication and key management methods to ensure secure communication and protect against unauthorized access. Understand the concepts and techniques of message authentication, digital signatures, and authentication protocols used in secure communication systems.	Analyze and evaluate security trends, attacks, and mechanisms, and propose effective security solutions based on the OSI security architecture. Apply classical encryption techniques, such as substitution and transposition ciphers, to encrypt and decrypt messages and analyze their security implications. Implement public-key cryptography algorithms, including RSA, and demonstrate the ability to securely exchange keys and establish secure communication channels. Design and implement secure authentication mechanisms, including message authentication codes and digital signatures, to ensure data integrity and non-repudiation.
	Investigate network security measures, including IP	Evaluate and implement various security measures such as IP security, web security protocols (e.g., SSL/TLS),

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	security, web security, intrusion detection, malicious software detection, and firewall design principles.	intrusion detection systems, and firewall configurations, to protect networks and systems from unauthorized access and attacks
Software Testing & Quality Assurance	<p>Understand the significance of software testing in ensuring software quality and reliability.</p> <p>Familiarize with the fundamental concepts and principles of software quality assurance.</p> <p>Learn different software testing techniques and methodologies for effective test case design</p> <p>Explore the role of verification and validation in software development and testing processes.</p> <p>Gain practical experience in using software testing tools and frameworks for automated testing.</p>	<p>Explain the importance of software testing and its impact on software quality.</p> <p>Apply appropriate software testing techniques to identify and mitigate software defects.</p> <p>Design and execute test cases to verify the functionality and performance of software systems.</p> <p>Understand the principles of verification and validation and their application in software testing.</p> <p>Utilize software testing tools and frameworks to automate testing processes and improve efficiency.</p>
Cyber Forensics	<p>Understand the principles and concepts of computer forensics.</p> <p>Develop skills in conducting computer investigations using a systematic approach.</p> <p>Gain proficiency in acquiring and preserving digital evidence from different storage formats</p> <p>Explore the use of specialized tools and software for computer forensics analysis.</p> <p>Learn the techniques for investigating network-related incidents and conducting live acquisitions.</p>	<p>Demonstrate a solid understanding of the principles and techniques used in computer forensics investigations.</p> <p>Apply systematic approaches to acquire, preserve, and analyze digital evidence from various sources.</p> <p>Utilize specialized tools and software for conducting effective computer forensics analysis.</p> <p>Develop strong skills in investigating network-related incidents, including live acquisitions and network forensics.</p> <p>Generate comprehensive and well-written reports that accurately document the findings of computer forensic investigations.</p>
Project Management	<p>Understand the fundamental concepts and characteristics of project management, including project selection, initiation, and project governance.</p> <p>Develop skills in scope management, time management, cost management, quality management, and risk management to effectively plan and control projects.</p>	<p>Apply project management principles, processes, and best practices to plan, execute, and control projects effectively.</p> <p>Develop project charters, define project scopes, and create work breakdown structures (WBS) to establish project objectives and deliverables.</p> <p>Create project schedules, estimate resource requirements, and monitor project progress using appropriate project management techniques.</p> <p>Employ quality assurance and control</p>

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	<p>Acquire knowledge of human resource management techniques, including team development, conflict resolution, and communication management.</p> <p>Gain insight into agile project management methodologies and tools, enabling the successful management of iterative and incremental development.</p> <p>Explore advanced topics such as stakeholder management, project leadership, project governance, and the role of technology in project management.</p>	<p>measures to ensure project deliverables meet stakeholder expectations and industry standards.</p> <p>Demonstrate effective leadership and teamwork skills, as well as the ability to manage stakeholders, resolve conflicts, and make ethical decisions in project management settings.</p>
Operations Research	<p>To understand the fundamental principles and approaches of Operations Research.</p> <p>To develop skills in formulating and solving linear programming problems.</p> <p>To analyze the duality in linear programming and its managerial significance.</p> <p>To apply sensitivity analysis techniques to assess the impact of changes in linear programming models.</p> <p>To explore advanced topics in Operations Research, including goal programming, transportation problems, and assignment problems</p>	<p>Define and explain the key concepts and features of Operations Research.</p> <p>Formulate and solve linear programming models using appropriate techniques.</p> <p>Apply duality concepts to analyze and interpret the results of linear programming problems.</p> <p>Conduct sensitivity analysis to assess the robustness and flexibility of linear programming solutions.</p> <p>Apply advanced techniques such as goal programming, transportation problems, and assignment problems to real-world decision-making scenarios.</p>
Project Work – I	To provide hands-on experience in making Live project	The aim of the Project work is to acquire practical knowledge on the implementation of the programming concepts studied
SEMESTER VI		
Data Science	<p>Understand the foundations and scope of Data Science, including its applications and comparison to related fields like Business Intelligence and Artificial Intelligence.</p> <p>Develop skills in data preprocessing, including cleaning, transforming, selecting, and merging data, to</p>	<p>Apply data preprocessing techniques to clean and transform raw data, handle missing values and outliers, and merge datasets.</p> <p>Implement machine-learning algorithms to perform tasks such as regression, classification, clustering, and ensemble learning.</p> <p>Evaluate and compare different machine learning models using appropriate</p>

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	<p>ensure data quality and suitability for analysis.</p> <p>Gain knowledge of machine learning algorithms and techniques, such as regression, classification, clustering, and ensemble learning, to build predictive models and make datadriven decisions.</p> <p>Learn how to evaluate and select models using appropriate evaluation metrics and crossvalidation techniques to ensure reliable and robust model performance.</p> <p>Develop proficiency in data visualization techniques and tools to effectively communicate insights and tell compelling stories using data.</p>	<p>evaluation metrics and cross-validation techniques.</p> <p>Create informative and visually appealing data visualizations to communicate insights and patterns in data.</p> <p>Understand the principles and practices of data management, including data governance, data quality assurance, and data privacy considerations.</p>
Cloud Computing and Web Services	<p>Understand the basics of cloud computing, including types of clouds, deployment models, and essential characteristics of cloud platforms.</p> <p>Explore web services technologies such as SOAP and REST and understand their role in distributed computing and parallel computing.</p> <p>Gain proficiency in utilizing virtualization technologies, including creating virtual machines and managing virtualized environments using tools like KVM and oVirt.</p> <p>Explore and utilize popular cloud computing platforms such as OpenStack and AWS to architect, deploy, and manage cloud-based applications and services.</p> <p>Learn about cloud security fundamentals, including confidentiality, integrity, availability, and secure development practices.</p>	<p>Demonstrate a comprehensive understanding of cloud computing concepts, including different types of clouds and their characteristics.</p> <p>Implement and utilize web service technologies, such as SOAP and REST, to develop distributed and parallel computing applications.</p> <p>Design, deploy, and manage cloud-based applications and services using popular cloud computing platforms such as OpenStack and AWS.</p> <p>Apply secure development practices and implement cloud security policies to ensure the confidentiality, integrity, and availability of cloud software solutions.</p> <p>Utilize virtualization technologies to create and manage virtualized environments, considering the benefits and drawbacks of virtualization.</p>
Information Retrieval	<p>To understand the fundamental principles and components of information retrieval systems.</p> <p>To explore various techniques for</p>	<p>Explain the key components and principles of information retrieval systems.</p> <p>Apply indexing, storage, and retrieval</p>

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	<p>document indexing, storage, and retrieval.</p> <p>To analyze and compare different retrieval models and understand their strengths and limitations</p> <p>To gain practical experience in implementing and evaluating information retrieval systems.</p> <p>To explore advanced topics in information retrieval, such as web information retrieval and machine learning techniques.</p>	<p>techniques to efficiently retrieve relevant documents.</p> <p>Compare and contrast different retrieval models and select appropriate models for specific search scenarios.</p> <p>Develop practical skills in implementing and evaluating information retrieval systems.</p> <p>Demonstrate an understanding of advanced topics in information retrieval, including web search and machine learning techniques.</p>
Ethical Hacking	<p>Understand the terminology and concepts related to ethical hacking and penetration testing.</p> <p>Explore various hacking technologies and the skills required to become an ethical hacker.</p> <p>Learn the different phases involved in ethical hacking and the methodologies used in penetration testing.</p> <p>Gain knowledge of common hacking techniques, such as footprinting, scanning, enumeration, and session hijacking.</p> <p>Develop proficiency in identifying and exploiting vulnerabilities in web servers, web applications, and wireless networks.</p>	<p>Apply ethical hacking methodologies to conduct comprehensive security assessments and penetration tests.</p> <p>Perform effective footprinting and reconnaissance techniques to gather critical information about target systems.</p> <p>Identify and exploit vulnerabilities in various network and system components using appropriate tools and techniques.</p> <p>Evaluate the security posture of web servers, web applications, and wireless networks, and recommend appropriate countermeasures.</p> <p>Demonstrate an understanding of ethical and legal considerations in conducting ethical hacking activities and adhere to professional codes of conduct.</p>
Customer Relationship Management	<p>To provide students with a comprehensive understanding of CRM concepts, theories, and models.</p> <p>To equip students with the knowledge and skills to manage the customer journey, including customer acquisition and retention.</p> <p>To explore the factors that contribute to customer-perceived value and the role of CRM in enhancing the customer experience.</p>	<p>Students will be able to define and explain the various forms of CRM and their relevance to business contexts.</p> <p>Students will acquire the skills to manage the customer journey effectively, including implementing customer acquisition and retention programs.</p> <p>Students will understand the importance of customer-perceived value and its impact on customer satisfaction, loyalty, and business performance.</p> <p>Students will be able to apply strategic and operational CRM approaches, such as customer portfolio management and marketing</p>
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	<p>customer portfolio management and marketing automation</p> <p>To introduce students to the analytical aspects of CRM, including data management, analytics for strategy and tactics, and the implementation of CRM systems</p>	<p>automation, to enhance organizational effectiveness.</p> <p>Students will develop proficiency in analytical CRM techniques, including data management, analytics for strategy and tactics, and the successful implementation of CRM systems. They will also be able to analyze and draw insights from real-life case studies and success stories related to CRM.</p>
Cyber Laws and IPR	<p>Understand fundamental concepts of cyber laws and their relevance in the digital age.</p> <p>Examine legal frameworks and regulations in cyber laws, including the Information Technology Act 2000 in India.</p> <p>Explore key issues in cyber laws such as e-commerce, e-governance, and electronic records and contracts.</p> <p>Gain knowledge of cybercrimes, enforcement mechanisms, and the role of the Cyber Appellate Tribunal.</p> <p>Analyze emerging issues in cyber laws, including liability of ISPs, privacy concerns, and jurisdictional aspects.</p> <p>Understand intellectual property rights and online regulations, including copyrights, patents, and domain name disputes.</p>	<p>Demonstrate a comprehensive understanding of cyber laws and their application in the digital age.</p> <p>Evaluate legal frameworks and regulations governing cyber laws.</p> <p>Identify and assess key issues in cyber laws, such as e-commerce, e-governance, and electronic records and contracts</p> <p>Understand cyber crimes, enforcement mechanisms, and the role of the Cyber Appellate Tribunal</p> <p>Analyze emerging issues in cyber laws, including liability of ISPs, privacy concerns, and jurisdictional complexities.</p> <p>Recognize intellectual property rights and online regulations, including copyrights, patents, and domain name disputes.</p>
Project Work – I	<p>To provide hands-on experience in making Live project</p>	<p>The aim of the Project work is to acquire practical knowledge on the implementation of the programming concepts studied</p>

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**Master of Science
Program Outcomes (POs)
MSc in Computer Science**

Upon successful completion of the **M.Sc. (Computer Science)** program, graduates will be able to:

- PO1: Apply Core Knowledge of Computer Science**
Demonstrate a strong understanding of the fundamental concepts, theories, and methodologies in computer science, including machine learning, data mining, data visualization, and data management.
- PO2: Develop Proficiency in Programming and Software Development**
Design, develop, and implement robust, scalable, and efficient software applications by leveraging programming skills, tools, and technologies for front-end and back-end development.
- PO3: Analyze and Solve Real-World Problems**
Identify and analyze complex real-world problems, design appropriate computational strategies, and implement innovative solutions using computer science techniques and tools.
- PO4: Conduct Research and Contribute to Knowledge Creation**
Develop research skills to design experiments, analyze data, and present findings, contributing to the advancement of knowledge in computer science.
- PO5: Stay Updated with Emerging Technologies**
Adapt to emerging trends and technologies in the computer science industry, demonstrating the ability to learn, evaluate, and apply new tools, techniques, and best practices.
- PO6: Demonstrate Effective Communication Skills**
Communicate technical ideas, research findings, and solutions effectively through written, oral, and visual mediums to both technical and non-technical audiences.
- PO7: Collaborate and Work in Teams**
Function effectively as a team member or leader in interdisciplinary environments, fostering collaboration, teamwork, and professional relationships to achieve shared objectives.
- PO8: Exhibit Ethical and Professional Responsibilities**
Uphold ethical principles, professional conduct, and social responsibility in decision-making, software development, and research practices.
- PO9: Develop Critical Thinking and Innovation**
Apply critical thinking and creativity to address complex problems, enabling the development of innovative solutions and contributing to technological advancements.
- PO10: Prepare for Lifelong Learning and Career Development**
Recognize the importance of continuous learning to adapt to technological advancements, industry needs, and research challenges, ensuring long-term career success.





**Master of Science
Program-Specific Outcomes (PSOs)
MSc in Computer Science**

Upon successful completion of the **M.Sc. (Computer Science)** program, graduates will be able to:

- PSO1: Master Core Computer Science Concepts**
Develop a comprehensive understanding of fundamental concepts, theories, and methodologies in computer science, including machine learning, data mining, data visualization, and data management.
- PSO2: Develop Programming and Application Development Skills**
Attain strong programming skills with hands-on experience in designing and implementing front-end and back-end solutions to build robust, scalable, and efficient applications.
- PSO3: Solve Real-World Problems with Innovative Solutions**
Exhibit problem-solving abilities by critically analyzing real-world challenges, designing appropriate computational strategies, and developing creative and efficient solutions using computer science principles.
- PSO4: Demonstrate Research and Analytical Skills**
Cultivate a research-oriented mindset by developing skills in literature reviews, experimental design, data analysis, and presentation of findings, contributing to the advancement of the computer science domain.
- PSO5: Collaborate and Communicate Effectively**
Work effectively as part of interdisciplinary teams, demonstrating collaboration, teamwork, and communication skills to address complex challenges in collaborative and professional environments.
- PSO6: Stay Industry-Relevant and Adapt to Emerging Technologies**
Adapt to the dynamic nature of the computer science field by staying updated with the latest industry trends, technologies, and best practices through internships, industry collaborations, and practical experiences.
- PSO7: Exhibit Professional and Leadership Skills**
Develop professional competencies such as project management, leadership, and decision-making, preparing for roles requiring technical expertise, teamwork, and leadership qualities.
- PSO8: Foster Lifelong Learning and Social Responsibility**
Demonstrate a commitment to lifelong learning, adapting to evolving technologies and industry needs, while upholding professional ethics, leadership qualities, and social responsibility.





Master Of Science (Computer Science)
COURSE OUTCOMES
MSc(Computer Science)

SEMESTER I		
SYLLABUS	OBJECTIVES	OUTCOME
Applied Signal and Image Processing	<ol style="list-style-type: none"> Understand the fundamentals of digital signal processing, including spectral decomposition and noise characterization. Learn basic image processing techniques such as intensity transformations and histogram processing. Explore structural and morphological image operations for edge detection and shape analysis. Master advanced image feature extraction and segmentation techniques for object recognition. Apply image processing tools and pipelines to solve real-world problems effectively. 	<ol style="list-style-type: none"> Understand and apply digital signal processing concepts for image analysis. Gain proficiency in image transformations, histogram processing, and filtering techniques. Develop expertise in edge detection and segmentation using various algorithms. Utilize morphological operations for image enhancement and feature extraction. Apply advanced techniques for feature detection, descriptors, and image analysis.
Software Defined Networking	<ol style="list-style-type: none"> Understand the fundamental concepts of computer networking, including network types, layered architectures (OSI/TCP-IP), and key protocols. Explore Software Defined Networking (SDN) principles, including its architecture, planes, and technologies like OpenFlow. Gain insights into Network Functions Virtualization (NFV) concepts, modern network architectures, and their role in IoT, cloud, and fog computing. Develop skills to design and implement Layer 2/3 switching techniques and advanced routing protocols (OSPF, BGP, MPLS). Learn to implement traffic filtering, routing redistribution, and multicast routing for effective network management. 	<ol style="list-style-type: none"> Understand networking concepts, OSI/TCP-IP models, and routing protocols. Gain skills in SDN architecture, OpenFlow, and application development. Comprehend NFV, cloud computing, and IoT in modern networks. Design and implement switching, routing, multicast, MPLS, and traffic filtering. Develop expertise in secure network design and traffic management.
Principles of Compiler Design	<ol style="list-style-type: none"> Understand the role, importance, and architecture of compilers, along with the phases of the compilation process. Learn lexical analysis, syntax analysis, and semantic analysis techniques, including the use of tools like Lex and Yacc. Develop knowledge of intermediate code generation techniques such as three-address code, quadruples, and syntax-directed translation. Explore code optimization methods, code generation techniques, and runtime environment management for efficient program execution. Gain exposure to advanced compiler tools, frameworks, and topics like JIT compilation, parallel programming support, and DSL compilation. 	<ol style="list-style-type: none"> Understand the theoretical foundations and concepts of compiler design and implementation. Acquire knowledge of the phases of the compilation process and their roles. Design and implement lexical analyzers and parsers effectively. Gain hands-on experience in building semantic analyzers and intermediate code generation. Implement code optimization and generation techniques with practical applications. Understand runtime environments and develop skills in error handling and debugging. Explore advanced topics in compiler design and apply knowledge to real-world projects.
NoSQL Technologies	<ol style="list-style-type: none"> Understand the fundamentals of NoSQL databases, their characteristics, storage types, and advantages and drawbacks. Learn to interface and interact with NoSQL data stores such as MongoDB, Redis, HBase, and Apache Cassandra for data storage 	<ol style="list-style-type: none"> Understand the characteristics, storage types, and advantages/drawbacks of NoSQL databases. Interface and interact effectively with NoSQL data





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	and retrieval. 3) Explore the storage architecture and internals of column-oriented, document-oriented, and key-value NoSQL databases. 4) Develop skills in performing CRUD operations in NoSQL databases for effective data management. 5) Gain insights into querying, indexing, and managing data in NoSQL databases, including cloud-based NoSQL implementations like Google App Engine and Amazon SimpleDB.	stores like MongoDB, Redis, HBase, and Apache Cassandra. 3) Comprehend the storage architecture of column-oriented, document-oriented, and key/value NoSQL databases. 4) Perform CRUD operations proficiently in NoSQL databases, including creating, accessing, updating, and deleting data 5) Query NoSQL stores effectively using MongoDB query features, and access data from HBase and Redis.
Research Methodology	<ul style="list-style-type: none">• Learn the principles and types of research methods• Master data collection, analysis and interpretation techniques.• Create effective plans for conducting studies and experiments.• Apply ethical standards in research and reporting.	<ul style="list-style-type: none">• Formulate clear and relevant research questions and objectives in the context of Data Sciences.• Choose appropriate research designs, sampling methods, and data collection techniques for data-driven research projects.• Gather, pre-process, and manage datasets, ensuring data quality and ethical handling and apply statistical analysis, machine learning, and deep learning techniques to analyze and extract insights from data in Data Sciences.• Effectively communicate research findings through research papers and presentations tailored for the Data Sciences community.• Understand and adhere to ethical principles and data privacy regulations when conducting research involving sensitive data.
Research Methodology	<ul style="list-style-type: none">• Learn the principles and types of research methods• Master data collection, analysis and interpretation techniques.• Create effective plans for conducting studies and experiments.• Apply ethical standards in research and reporting.	<ul style="list-style-type: none">• Formulate clear and relevant research questions and objectives in the context of Data Sciences.• Choose appropriate research designs, sampling methods, and data collection techniques for data-driven research projects.• Gather, pre-process, and manage datasets, ensuring data quality and ethical handling and apply statistical analysis, machine learning, and deep learning techniques to analyze and extract insights from data in Data Sciences.• Effectively communicate research findings through research papers and presentations tailored for the Data Sciences community.• Understand and adhere to ethical principles and data privacy regulations when conducting research involving sensitive data.


SEMESTER II

SYLLABUS	OBJECTIVES	OUTCOME
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Machine Learning	<p>1) Understanding how to apply these techniques, evaluate models, and deploy them effectively will enable you to make data-driven decisions, develop predictive models, and solve real-world problems.</p> <p>2) Evaluating model performance using appropriate metrics ensures that you can make informed decisions about your models' effectiveness.</p> <p>3) Gain proficiency in applying Support Vector Machines (SVM), optimizing models to accurately classify data and predict continuous values. Focus will be on understanding kernel functions, hyperparameters, and evaluating model performance.</p> <p>4) Enable us to build and train neural networks for complex tasks like image recognition and natural language processing.</p>	<ol style="list-style-type: none">1. Develop a solid understanding of the fundamentals of machine learning, including its types and applications.2. Apply various machine learning techniques such as linear regression, logistic regression, and decision trees to train models and make predictions.3. Gain proficiency in using support vector machines (SVM) for classification and regression tasks.4. Explore the fundamentals of deep learning and artificial neural networks, including their architecture and activation functions.5. Acquire practical skills in implementing machine learning algorithms using the TensorFlow framework and analyzing performance measures for model evaluation.
Natural Language Processing	<p>1) Enable machines to understand, interpret, and generate human language, improving communication between humans and computers.</p> <p>2) To build real world model like word segmentation, syntactic parsing, and semantic interpretation for effective language processing</p> <p>3) It aims to design and implement practical NLP-based solutions for real-world use cases.</p> <p>4) design and develop practical NLP-based applications that solve real-world problems, leveraging language processing techniques for tasks such as sentiment analysis, chatbots, and text summarization.</p>	<ol style="list-style-type: none">1. Understanding the importance and concepts of Natural Language Processing (NLP)2. Applying algorithms available for the processing of linguistic information and computational properties of natural languages.3. Knowledge on various morphological, syntactic, and semantic NLP tasks.4. Introducing various NLP software libraries and data sets publicly available.5. Designing and developing practical NLP based applications
Simulation and Modelling	<p>1) Enable students to create, analyze, and apply simulations to model real-world systems effectively.</p> <p>2) Enabling them to apply these models to analyze and interpret simulation data effectively.</p> <p>3) enabling them to analyze and assess system performance in terms of wait times, resource utilization, and overall efficiency.</p> <p>4) enables them to analyze, predict, and optimize system performance under various conditions, facilitating informed decision-making and problem-solving.</p>	<ol style="list-style-type: none">1. To introduce students to the fundamental concepts and components of computer simulation and modeling.2. To provide students with a comprehensive understanding of statistical models commonly used in simulation studies.3. To familiarize students with different queueing models and their characteristics for analyzing system performance.4. To develop students' skills in generating random numbers and random variates for simulation experiments.5. To equip students with the knowledge and techniques for input modeling and selecting appropriate input models for simulations.
Web Data Analytics	<p>1) Students will learn how to extract meaningful patterns and knowledge from web data to enhance web analytics and decision-making processes.</p> <p>2) Enable them to effectively retrieve, process, and analyze information from large-scale web data for improved search and retrieval performance.</p> <p>3) implementing webpage crawlers for extracting valuable insights from web data.</p> <p>4) learn how to apply recommender systems and query log mining techniques to enhance user experience and optimize web content delivery.</p>	<ol style="list-style-type: none">1. Understand the concepts and techniques of web mining, including sequential pattern mining and rule generation.2. Gain knowledge of information retrieval models, text preprocessing, and web search techniques.3. Learn about opinion mining and sentiment classification in web information retrieval. Explore social network analysis, link analysis, and the implementation of webpage crawlers.4. Understand web usage mining, including the discovery and analysis of web usage patterns, and the use of recommender systems and query log mining.
On Job Training	<ul style="list-style-type: none">• Skill Development: Equip employees with the practical skills needed for their specific roles through hands-on experience.• Knowledge Transfer: Ensure the understanding and application of company processes, systems, and tools.	<ul style="list-style-type: none">• Enhanced Competence: Employees gain the necessary skills and knowledge to perform their job tasks efficiently and independently.• Increased Productivity: Improved employee





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	<ul style="list-style-type: none">• Performance Improvement: Increase employee efficiency, productivity, and confidence by providing real-time feedback and support.• Adaptability: Enable employees to effectively adjust to new tasks, technologies, or changes in the work environment.	<p>performance leads to higher output, reduced errors, and better overall results.</p> <ul style="list-style-type: none">• Greater Job Satisfaction: Employees feel more confident and valued, leading to increased engagement and retention.• Improved Adaptability: Employees become more flexible and capable of handling changes in processes, technologies, or job responsibilities.
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SEMESTER IV

SEMESTER III

SYLLABUS	OBJECTIVES	OUTCOME
Web 3 Technologies	<p>Understand Web3 and Bitcoin: Learn the fundamentals of Web3 technologies and Bitcoin, including blockchain and decentralization.</p> <p>Master Ethereum & Smart Contracts: Gain skills in Ethereum's decentralized network and develop smart contracts using Solidity.</p> <p>Explore Ethereum Framework & Tokenization: Understand Ethereum's architecture, upgrades (Serenity), and tokenization (ERC-20, ERC-721).</p> <p>Apply Solidity for Tokenization: Write, deploy, and manage smart contracts and tokenized assets (cryptocurrencies, NFTs) on Ethereum.</p>	<ol style="list-style-type: none">1. Understand and apply the fundamentals of Web3 Technologies and bitcoin.2. Develop skills in smart contracts and Ethereum development environments.3. Understand and apply concept of Ethereum framework, serenity and Tokenization4. Apply Solidity programming for Smart contracts and tokenization.
Cyber Security and Risk Assessment	<p>Advanced Penetration Testing Concepts: Learn advanced techniques and strategies in penetration testing to assess network security.</p> <p>Vulnerabilities & Advanced Attacks: Understand various security vulnerabilities and advanced attack methods used in cyber security.</p> <p>System & Digital Asset Protection: Learn effective ways to secure systems and protect digital assets from potential threats.</p> <p>Effective Security Tools & Evasion Techniques: Identify and select the best tools for penetration testing, including methods for rapid system compromise and techniques to avoid detection.</p>	<ol style="list-style-type: none">1. Learn about an advanced concept related to penetration testing2. Understand various vulnerabilities and various advanced attacks in cyber security3. Understand ways to protect system and digital assets4. Selecting the most effective tools, to rapidly compromising network security to highlighting the techniques used to avoid detection
Ethical & Responsible AI	<p>Understand Ethical Frameworks in AI: Learn key ethical principles such as fairness, transparency, accountability, and privacy in AI development.</p> <p>Identify Ethical Issues in AI: Recognize and address ethical challenges that arise during the development, deployment, and use of AI technologies.</p>	<ol style="list-style-type: none">1. Gain an understanding of ethical frameworks and principles relevant to AI, including fairness, transparency, accountability, and privacy.2. Learn to identify ethical issues and challenges that arise in the development, deployment, and use of AI technologies.
Data Visualization	<p>Data Analysis & Wrangling: Learn to use data analysis tools and perform data wrangling for practical applications.</p> <p>Tableau for Data Analysis: Use Tableau to integrate data from multiple sources and perform in-depth data analysis.</p>	<ol style="list-style-type: none">1. Work with data analysis tools and perform data wrangling for practical purposes.2. Use of Tableau to handle data from various sources and perform analysis of data.
RP	<p>To explore and analyze various types of financial risks, such as market, credit, operational, and liquidity risks, and to develop effective methods for assessing, managing, and mitigating these risks.</p>	<ul style="list-style-type: none">• Gather, preprocess, and manage datasets, ensuring data quality and ethical handling.• Apply statistical analysis, machine learning, and deep learning techniques to analyze and extract insights from data in Data Sciences.• Effectively communicate research findings through research papers and presentations tailored for the Data Sciences community. <p>• Understand and adhere to ethical principles and data privacy regulations when conducting research involving sensitive data.</p>

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SYLLABUS	OBJECTIVES	OUTCOME
Deep Learning	<ol style="list-style-type: none">1.Students will develop the ability to approach deep learning problems with critical thinking and solve complex tasks by selecting appropriate models and fine-tuning them.2.Recurrent Neural Networks (RNNs), Long Short-Term Memory (LSTM), or Transformer models for sequential data.Autoencoders for anomaly detection or data compression tasks.3.Description of the dataset used, whether it's a publicly available dataset (e.g., ImageNet, CIFAR-10) or a custom dataset. This include details about the data size, features, and preprocessing steps (normalization, augmentation, etc.).4.Use of deep learning frameworks like TensorFlow, PyTorch, or Keras.Libraries used for data manipulation (e.g., NumPy, Pandas), visualization (e.g., Matplotlib, Seaborn), and model building.	<ol style="list-style-type: none">1.Students will be able to tackle real-world problems that require sophisticated deep learning techniques, demonstrating their ability to handle challenges that involve large datasets, intricate model architectures, and specialized techniques.2.Understand how these models handle and process sequential data in tasks such as time series prediction, natural language processing, and speech recognition.Explore the strengths and weaknesses of RNNs, LSTMs, and Transformers in various applications.3.Understanding and describing a dataset used in a machine learning or computer vision task. The main components of the explanation focus on:Dataset Type,Data Size.4.Students will Gain hands-on experience with data manipulation libraries like NumPy and Pandas for cleaning, transforming, and preparing datasets for machine learning tasks and Applying data preprocessing techniques such as normalization, feature engineering, and missing data imputation to enhance model performance.
Big Data Analysis	<ol style="list-style-type: none">1.Students will create a big data system for recommending products to users based on their browsing history and purchase patterns using machine learning models such as collaborative filtering and matrix factorization.2.Real-Time Social Media Sentiment Analysis: Developing a system to analyze social media data in real time to gauge public sentiment about brands, political events, or trends using Natural Language Processing (NLP) techniques.3.Optimizing the performance of the big data systems and analytics workflows.This includes tuning distributed computing frameworks (such as Hadoop or Spark) to improve performance, managing resources efficiently, and using techniques like partitioning, caching, or data locality.4. The ability to implement machine learning models to make predictions or classifications based on big data.Using supervised or unsupervised learning techniques (like regression, clustering, classification, recommendation algorithms), you can train models on large datasets.	<ol style="list-style-type: none">1.Students will Gain a strong understanding of the tools and technologies used in big data systems, including distributed computing, storage, and machine learning frameworks.2.They will Gain a comprehensive understanding of sentiment analysis and its importance in analyzing public opinion across social media platforms.Identify the role of sentiment analysis in brand management, political discourse, and trend monitoring.Learn key NLP concepts and techniques used in sentiment analysis, such as tokenization, part-of-speech tagging, named entity recognition, and syntactic parsing.3.Students will Gain in-depth knowledge of distributed computing systems such as Hadoop and Spark, including their architecture, components, and data processing models.Develop the skills to optimize performance in big data systems by fine-tuning the configurations of distributed computing frameworks, ensuring that data processing tasks run efficiently across clusters.4.They will Learn how to implement and apply machine learning algorithms to large datasets effectively.Develop skills in data preprocessing, feature engineering, and data exploration to prepare large datasets for machine learning applications.Apply various machine learning algorithms to make predictions, classifications, or recommendations based on big data.
Remote Sensing	<ol style="list-style-type: none">1. This involves using GIS software to analyze spatial patterns, calculate areas, assess proximity, or perform spatial correlation with other datasets (e.g., socio-economic data, environmental factors).2.Acquisition of land cover data (polygons) and road networks (lines) from satellite images, or the integration of vector data from existing maps.and Digitizing the boundaries of land parcels, rivers, or vegetation areas from remote sensing imagery or creating new vector layers for roads and utilities.	<ol style="list-style-type: none">1.Students will gain the ability to calculate areas and assess proximity between geographic features, enabling them to conduct detailed spatial analyses for various applications and will learn how to integrate multiple datasets (e.g., socio-economic, environmental factors) within GIS software, performing spatial correlation and identifying how different variables interact spatially.2.The student will gain the ability to integrate and manipulate vector data (such as roads, utilities, land parcels) with remote sensing imagery, enabling spatial analysis and accurate mapping and will be able to critically analyze spatial data (from remote

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	<p>3.The project focuses on adding raster layers to a geographic information system (GIS) platform and applying raster styling to visually interpret data from remote sensing sources. Raster data is a crucial element in remote sensing, often used to represent information such as satellite imagery, elevation data, land cover, and more. Raster layers represent the Earth's surface in a grid format, where each cell contains specific data values.</p> <p>4. focuss on validating map data, noting observations, and raster styling, will generally aim to achieve a thorough understanding of how remote sensing data can be processed, analyzed, and presented.</p>	<p>sensing and vector sources) for informed decision-making, particularly in urban planning, environmental management, and infrastructure development.</p> <p>3.Gain proficiency in visualizing raster data in GIS platforms to communicate complex spatial data effectively to stakeholders. Develop the ability to add raster layers to geographic information systems (GIS) platforms for spatial analysis and interpretation.</p> <p>4.Understanding basics of remote sensing and Validate and interpret map data, ensuring accuracy and reliability of remote sensing datasets.</p>
RP	<p>To explore and analyze various types of financial risks, such as market, credit, operational, and liquidity risks, and to develop effective methods for assessing, managing, and mitigating these risks.</p>	<p>Gather, preprocess, and manage datasets, ensuring data quality and ethical handling.</p> <ul style="list-style-type: none">• Apply statistical analysis, machine learning, and deep learning techniques to analyze and extract insights from data in Data Sciences.• Effectively communicate research findings through research papers and presentations tailored for the Data Sciences community.• Understand and adhere to ethical principles and data privacy regulations when conducting research involving sensitive data.

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**Master of Science
Program Outcomes (POs)
MSc in Data Science**

Upon successful completion of the **M.Sc. (Data Science)** program, graduates will be able to:

1. **PO1: Apply Knowledge of Data Science**
Acquire and apply comprehensive knowledge of data science concepts, including statistics, machine learning, data mining, data visualization, and data management, to solve complex problems.
2. **PO2: Analyze and Interpret Data**
Develop the ability to analyze, preprocess, and interpret large-scale datasets using appropriate analytical methods, statistical tools, and machine learning algorithms to extract meaningful insights.
3. **PO3: Demonstrate Technical Proficiency**
Exhibit strong technical skills in data science tools and programming languages, such as **Python, R**, and relevant frameworks, for data manipulation, visualization, and predictive modeling.
4. **PO4: Solve Complex Real-World Problems**
Identify, formulate, and solve real-world data-driven challenges by designing effective data analysis strategies and implementing innovative solutions.
5. **PO5: Communicate Effectively**
Communicate technical findings, methodologies, and outcomes clearly and effectively to diverse audiences through reports, presentations, and visual storytelling.
6. **PO6: Function Effectively in Teams**
Collaborate as part of interdisciplinary teams to address data challenges, fostering teamwork, effective communication, and leadership skills to achieve shared goals.
7. **PO7: Practice Ethical and Responsible Data Science**
Demonstrate awareness of ethical issues in data science, such as privacy, data security, and bias, and adhere to ethical practices and professional responsibilities in data collection, analysis, and reporting.
8. **PO8: Engage in Lifelong Learning**
Recognize the need for continuous learning to adapt to evolving data science technologies, industry trends, and research advancements.
9. **PO9: Integrate Industry-Relevant Practices**
Apply practical knowledge and skills gained through projects, case studies, internships, and industry collaborations to address real-world challenges and meet the demands of the job market.
10. **PO10: Exhibit Professional and Leadership Skills**
Demonstrate professional competencies such as project management, problem-solving, decision-making, and leadership, preparing for successful careers in data science roles.





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MSc in Data Science**

Upon successful completion of the **M.Sc. (Data Science)** program, graduates will be able to:

- PSO1: Master Core Data Science Concepts**
Demonstrate a comprehensive understanding of key concepts, theories, and methodologies in data science, including statistics, machine learning, data mining, data visualization, and data management.
- PSO2: Apply Data Analytics and Machine Learning Techniques**
Develop proficiency in analyzing large and complex datasets by applying statistical methods, machine learning algorithms, and data visualization tools to derive meaningful insights and solve real-world problems.
- PSO3: Develop Technical Proficiency in Tools and Programming Languages**
Gain hands-on experience with industry-standard tools and programming languages like **Python** or **R**, and utilize libraries/frameworks for data manipulation, modeling, and visualization.
- PSO4: Solve Real-World Data Challenges**
Exhibit problem-solving abilities by designing and implementing effective data analysis strategies to address real-world challenges with a critical and innovative mind-set.
- PSO5: Ensure Ethical and Responsible Data Practices**
Adhere to ethical guidelines and standards in data science, ensuring responsible data collection, privacy, security, and transparent reporting while addressing societal and professional responsibilities.
- PSO6: Collaborate and Communicate Effectively**
Work effectively in interdisciplinary teams to solve complex problems, demonstrating teamwork, leadership, and clear communication skills while engaging with diverse stakeholders.
- PSO7: Stay Industry-Relevant and Future-Ready**
Adapt to emerging industry trends and technologies by engaging in lifelong learning, utilizing opportunities for practical exposure, and ensuring preparedness for the dynamic job market in data science.
- PSO8: Demonstrate Professional Growth and Leadership**
Develop professional skills such as project management, decision-making, and leadership to excel in data-driven roles across industries and research fields.





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व्ही.के. कृष्ण मेनन वाणिज्य व अर्थशास्त्र महाविद्यालय आणि शरद शंकर दिघे विज्ञान महाविद्यालय

Affiliated to the University of Mumbai

Email :- info@menoncollege.edu.in

Master Of Science (Data Science)

COURSE OUTCOMES

MSc (Data Science)

SEMESTER I		
SYLLABUS	OBJECTIVES	OUTCOME
Essential technologies for Data science	<ul style="list-style-type: none"> To understand key data science concepts and workflows. Learn tools like Python, SQL and machine learning frameworks. Apply models to solve real – world problems. Emphasize collaboration and ethical data practices. 	<ul style="list-style-type: none"> Students should be able to understand the core concepts of programming before starting to write new programs. Students should be able to develop logic for Problem Solving. To manage data by relying on data structures such as strings, arrays, files, lists, and dictionaries. Exemplify the various levels of decision making on a program and implement a mix of loops, functions, and control flow to extract information from a data structure. Student should able to learn different programming techniques and tools related to data science.
Data Analysis and Visualization	<ul style="list-style-type: none"> Learn techniques to explore process and interpret data. Use tools like Tableau, Python or Excel to create impactful visual representations. Develop skills to present data – driven findings effectively. Solve real-world problems using data-driven approaches 	<ul style="list-style-type: none"> Understand various data formats, sources and storage mechanisms. Handle missing data and manage data wrangling and manipulation Create data visualization and report making using various software tools and interpretations Create a data story using various software tools
Statistical Methods for Data Science	<ul style="list-style-type: none"> Learn key concepts like probability, distributions and hypothesis testing. Apply statistical techniques to explore, summarize and interpret data. Build predictive models using regression and classification techniques. Use statistical methods for decision-making and data-driven insights. 	<ul style="list-style-type: none"> Students will gain a solid understanding of foundational statistical concepts, including probability, sampling distributions, hypothesis testing, and confidence intervals. They will learn the principles and techniques used in statistical analysis. Students will learn how to apply statistical methods to analyse data in the context of data science. They will become proficient in using statistical techniques such as regression analysis, analysis of variance (ANOVA), chi-square tests, and non-parametric tests. Students will gain proficiency in using statistical software and programming languages such as R or Python to implement statistical analyses. They will learn how to write code to perform statistical calculations, visualize data, and automate data analysis processes. Students will enhance their critical thinking skills and ability to solve problems using statistical methods
Retail Marketing Analytic	<ul style="list-style-type: none"> Learn key concepts and metrics in retail marketing. Use data to study customer preferences and purchasing patterns. Apply analytics to enhance pricing, promotions and product placement. Leverage insights for improving sales and customer experience. 	<ul style="list-style-type: none"> Understand the importance of marketing analytics for forward looking and systematic allocation of marketing resources Know how to use marketing analytics to develop predictive marketing dashboard for organization Analyze data and develop insights from it to address strategic marketing challenges
Research Methodology	<ul style="list-style-type: none"> Learn the principles and types of research methods 	<ul style="list-style-type: none"> Formulate clear and relevant research questions and objectives in the context of Data

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	<ul style="list-style-type: none"> Master data collection, analysis and interpretation techniques. Create effective plans for conducting studies and experiments. Apply ethical standards in research and reporting. 	<p>Sciences.</p> <ul style="list-style-type: none"> Choose appropriate research designs, sampling methods, and data collection techniques for data-driven research projects. Gather, pre-process, and manage datasets, ensuring data quality and ethical handling and apply statistical analysis, machine learning, and deep learning techniques to analyze and extract insights from data in Data Sciences. Effectively communicate research findings through research papers and presentations tailored for the Data Sciences community. Understand and adhere to ethical principles and data privacy regulations when conducting research involving sensitive data.
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SEMESTER II		
SYLLABUS	OBJECTIVES	OUTCOME
Soft Computing	<ol style="list-style-type: none"> To introduce students to the foundational concepts of soft computing and its role in solving real-world problems. To introduce the concept and architecture of artificial neural networks and their applications in pattern recognition, classification, and prediction. To explore real-world applications of soft computing in areas such as machine learning, data mining, pattern recognition, optimization, and image processing. To encourage students to explore the latest research and advancements in soft computing techniques. 	<ol style="list-style-type: none"> Understanding Soft Computing Paradigms. Comprehend the principles and mathematical foundations of Fuzzy logic. Acquire knowledge of the theory and concepts underlying neural networks, including artificial neurons, activation functions. Explore the theoretical understanding of Genetic algorithms, including genetic operators (selection, crossover, mutation), encoding schemes, fitness evaluation.
Time Series Analysis and Forecasting	<ol style="list-style-type: none"> To provide an understanding of the components of time series: trend, seasonality, cyclic patterns, and noise. To introduce various models used for time series analysis, including Autoregressive (AR), Moving Average (MA), Autoregressive Integrated Moving Average (ARIMA), and Seasonal ARIMA (SARIMA). To provide students with techniques for fitting time series models to real data and estimating model parameters. To introduce techniques for handling large-scale time series data, including big data frameworks (e.g., Hadoop, Spark) for time series processing. 	<ol style="list-style-type: none"> Forecast the trend pattern exhibited by the given data by using various methods. Run and interpret time series models and regression models for time series. Use the Box-Jenkins approach to model and forecast time series data empirically. Analyze and estimate the cyclic components using special processes
Statistical Methods for Data Science	<ol style="list-style-type: none"> To introduce students to the fundamental concepts of ethics and their importance in the field of data science. To teach the principles of data privacy, including data protection laws (such as GDPR, CCPA, and HIPAA) and their impact on data collection, storage, and use. To emphasize the importance of securing personal and sensitive data 	<ol style="list-style-type: none"> Understand the fundamental ethical issues that arise in the field of data science Understand the ethical implications of data collection, and decision-making processes. Understand concerns related to data collection, storage, and sharing Understand the principles to make decisions in data science

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	<p>and maintaining user confidentiality throughout the data science lifecycle.</p> <ol style="list-style-type: none"> To teach methods for detecting, quantifying, and mitigating bias in data, including algorithmic fairness techniques and diverse sampling methods. To discuss the ethical responsibility of data scientists in ensuring transparency and interpretability in machine learning models. 	<p>projects.</p> <ol style="list-style-type: none"> Reflect on the emerging ethical issues and future directions in data science
Social Media Analytics	<ol style="list-style-type: none"> Track user interactions with posts (likes, comments, shares, etc.) to understand engagement. Assess the reach and visibility of content and the brand on social media Gain insights into who is engaging with your content (age, gender, location, interests, etc.). Measure public sentiment and perceptions around the brand or specific campaigns. 	<ol style="list-style-type: none"> To understand and familiarize the learners with the concept of social media . Social media analytics integrates with the learners to understand the significance. Familiarize the learner with different visualization techniques for social media decisions. Enable the learners to develop skills required for analyzing the effectiveness of social media.
On Job Training	<ol style="list-style-type: none"> Skill Development: Equip employees with the practical skills needed for their specific roles through hands-on experience. Knowledge Transfer: Ensure the understanding and application of company processes, systems, and tools. Performance Improvement: Increase employee efficiency, productivity, and confidence by providing real-time feedback and support. Adaptability: Enable employees to effectively adjust to new tasks, technologies, or changes in the work environment. 	<ul style="list-style-type: none"> Enhanced Competence: Employees gain the necessary skills and knowledge to perform their job tasks efficiently and independently. Increased Productivity: Improved employee performance leads to higher output, reduced errors, and better overall results. Greater Job Satisfaction: Employees feel more confident and valued, leading to increased engagement and retention. Improved Adaptability: Employees become more flexible and capable of handling changes in processes, technologies, or job responsibilities.

SEMESTER III		
SYLLABUS	OBJECTIVES	OUTCOME
Next Generation Databases	<ol style="list-style-type: none"> Understand Big Data: Explore Big Data concepts, types, sources, usage in industries, data governance, and key technologies for data storage and processing. Relational Databases & Data Warehousing: Learn database design, SQL operations, and the principles of data warehousing, including OLTP vs OLAP and schema types. NoSQL & MongoDB: Compare SQL and NoSQL databases, with a focus on MongoDB, its data model, querying, and operations like insert, update, and indexing. Distributed Systems & Hadoop: Study distributed systems, Hadoop architecture, 	<ol style="list-style-type: none"> Understand the fundamentals of Big Data, its applications in various domains and the technologies in Bigdata ecosystem. Understand the difference between Database system and data warehouse, the architecture and working of Enterprise Data warehouse, understand RDBMS model, perform SQL queries, importance of ACID properties Differentiate between ACID and BASE. Understand HDFS File Structure, Map Reduce Framework Understand the different types of

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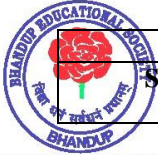
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	MapReduce, Pig, Hive, and graph databases (HBase and Neo4j), with practical applications in data processing.	NoSQL databases like document database, columnar database, and graph database
Text Mining and Natural Language Processing	<ol style="list-style-type: none">1. Understand the fundamentals of Text Mining, NLP, and their applications, challenges, and pre-processing techniques.2. Learn text representation methods like Bag-of-Words, TF-IDF, and embeddings for effective text analysis.3. Master text classification, topic modeling, sentiment analysis, and other NLP tasks using traditional and advanced methods.4. Explore and implement RNNs, LSTMs, transformers (BERT, GPT), and pre-trained models with frameworks like Keras and TensorFlow.	<ol style="list-style-type: none">1. Able to pre-process, clean, and represent text data effectively.2. Implement and evaluate text classification and topic modeling techniques.3. Understand and apply advanced NLP methods
Data Compliance and Auditing	<ol style="list-style-type: none">1. Understand and apply the principles of data protection and compliance, including GDPR, ePrivacy, and operational data protection frameworks.2. Learn the rights of data subjects and programmatic approaches for implementing data protection by design and default.3. Acquire skills in data auditing and vulnerability management, including security audits, vulnerability assessments, and risk management.4. Develop expertise in configuration management and its role in ensuring secure and compliant data operations.	<ol style="list-style-type: none">1. Gain a comprehensive understanding of major data protection and privacy regulations such as GDPR, and their implications for businesses.2. Develop the ability to plan, conduct, and document data audits using industry-standard methodologies and tools to ensure data accuracy and compliance.
Data Science for Agriculture	<ol style="list-style-type: none">1. Understand the role of data science, big data, and machine learning in solving key agricultural challenges.2. Explore data sources, collection techniques (e.g., IoT, remote sensing), and data management in agriculture.3. Learn to analyze agricultural data using EDA, predictive models, and advanced ML techniques like deep learning and computer vision.4. Apply data science concepts to real-world agricultural problems through case studies and precision farming..	<ol style="list-style-type: none">1. Proficiency in data collection, preprocessing, and analysis for agricultural data.2. Ability to build predictive models and perform EDA specific to agriculture.3. Skills in remote sensing, GIS, and precision agriculture techniques.4. Competence in developing data-driven solutions for agricultural challenges.5. Enhanced understanding of sustainability and environmental impacts in agriculture
Research Project	<ol style="list-style-type: none">1. Equip students with the skills to independently conceptualize and develop a structured research project proposal in their domain of interest.2. Enable students to critically review and synthesize literature, identifying gaps and framing clear research objectives.3. Guide students in designing an appropriate methodology, including participant selection, data collection, and analysis techniques.4. Foster understanding of the significance, scope, and potential impact of research	<ol style="list-style-type: none">1. Formulate a clear and concise research problem and objectives aligned with current trends and challenges in their domain.2. Conduct a comprehensive literature review, critically analyzing existing work and identifying research gaps.3. Design an appropriate research methodology, including data collection, participant selection, and analysis techniques, to address the research problem.
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SEMESTER IV
SYLLABUS AND SHARAD SHARMA COLLEGE OF SCIENCE
OBJECTIVES
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		5. ethical standards. Articulate the significance and scope of their proposed research and defend their proposal effectively during the viva examination.
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Deep Neural Networks	To enable students to understand the principles, architectures, and techniques of deep neural networks, focusing on their application to solve complex problems in various domains.	<ul style="list-style-type: none">● Understand the architectures and workings of various deep learning models● Implement deep learning solutions for complex problems in computer vision, natural language processing.● Evaluate and optimize deep learning models using modern techniques and frameworks● Adapt with cutting-edge research in deep learning to formulate and solve novel research questions.
Optimization Methods Financial Data Science	To enable students to understand the principles, algorithms, and techniques of optimization, focusing on their application to solve complex problems in financial data science and analytics.	<ul style="list-style-type: none">● Cast minima/maxima problems into optimization framework.● Learn efficient computational procedures to solve optimization problems.
Financial Risk Analytics and Management	To enable students to understand the principles, methods, and tools of financial risk analytics and management, focusing on identifying, quantifying, and mitigating risks in dynamic financial environments.	<ul style="list-style-type: none">● To address the challenges associated with financial risk (market risk, credit risk and operation risk) through quantitative models and statistical methods.● To provide an overview of data analytics application under financial risk analytics context.● To gain the knowledge of handling financial risks using data analytics framework.● To use appropriate risk measures in financial domain.
RP	To explore and analyze various types of financial risks, such as market, credit, operational, and liquidity risks, and to develop effective methods for assessing, managing, and mitigating these risks.	<ul style="list-style-type: none">● Gather, preprocess, and manage datasets, ensuring data quality and ethical handling.● Apply statistical analysis, machine learning, and deep learning techniques to analyze and extract insights from data in Data Sciences.● Effectively communicate research findings through research papers and presentations tailored for the Data Sciences community.● Understand and adhere to ethical principles and data privacy regulations when conducting research involving sensitive data.
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