



# BHAVNA TRUST

JUNIOR & DEGREE COLLEGE OF COMMERCE & SCIENCE

Affiliated to the University of Mumbai

Plot No. 5, SunderBaug, RajeShivajiChowk, V.N.PuravMarg, Deonar, Mumbai : 400 088 | Maharashtra

## PROGRAMME OUTCOMES (POs)

- **PO1: Character building:** Molding the character of the learners which shall enable them to identify appropriate ethical, moral, legal, socially viable and culturally sound choices in life. They shall be able to differentiate and choose between the virtues and the vice.
- **PO2: Skill Based Employability:** The learners shall possess basic operational skills like using word processing software, presentation softwares, spreadsheets, organizational writing, planning and execution etc. The learners shall demonstrate the ability to gain skill based preliminary employment and maintain the same.
- **PO3: Conscientious Citizenry:** The learners shall be Aware and Sensitized towards the marginalized and socially deprived groups. Learners shall showcase empathy towards fellow citizens & take initiative to improve social situations. They shall act sensitively and address social issues with concern and commiseration.
- **PO4: Empathetic Communication:** The Learners shall display the ability to understand other people's emotions, Empathise with others. The Learners shall be able to work with people, build mutually supportive relations with others & communicate effectively - formally and informally.
- **PO5: Scientific Temperament:** The learners shall develop the right attitude towards logical and rational thinking which will expand/cultivate curiosity towards ideas, practices, opinions and evaluate them on the basis of scientific reasoning. The Learners can act as an agent of positive change in society.

## PROGRAMME SPECIFIC OUTCOMES (PSO) – BCOM Bachelor of Commerce

- **PSO 1:** Acquire fundamental knowledge in the fields of commerce, business, accounting, economics, and finance, auditing, marketing, entrepreneurship development & overall general legal framework of the business and apply theoretical concepts to business practices.
- **PSO 2:** Analyse relationships among commerce, trade industry, services, management and administration
- **PSO 3:** Acquire skills to work as tax consultant, audit assistant and other financial supporting services
- **PSO 4:** Play roles of businessmen, entrepreneurs, managers, and consultants, which will help learners to possess knowledge and other soft skills and to react aptly when confronted with critical decision making.

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### COURSE OUTCOME (CO)

### Bachelor of Commerce

### SEMESTER I

| Sr. No | Course Component                   | Course                              | Course Outcomes  |
|--------|------------------------------------|-------------------------------------|--|
| 1      | Discipline Specific Elective (DSE) | Accounting & Finance Management – I | <ol style="list-style-type: none"><li>1. Acquire knowledge about the Accounting Standards issued by ICAI, its relevance to India in maintenance of accounts, disclosure and revenue recognition. Gain knowledge on various methods of stock valuation; methods which are recognised under AS-2, impact on profit if a method is changed.</li><li>2. Recognize capital and revenue – expenditure and receipts &amp; distinction between them. Learners shall solve practical problems on Final Accounts of Manufacturing Concern.</li><li>3. Develop the skill of preparing final accounts for departmental store, allocation of cost</li></ol> |
|        |                                    |                                     | <p>among different departments on suitable basis</p> <ol style="list-style-type: none"><li>4. Develop the skill of accounting for hire purchase transactions, calculation of interest, depreciation etc.</li></ol>   |
| 2      | Discipline Related Elective (DRE)  | Commerce – I                        | <ol style="list-style-type: none"><li>1. Design annotating of the fundamental view of business as well as the importance of the business environment in conducting business.</li><li>2. Explain the importance &amp; different constituents of the business environment.</li><li>3. Comprehend and implement the knowledge gained on project planning, Statutory requirements in Promoting Business Unit.</li><li>4. Evaluate fundamental principles in entrepreneurship and recognize the importance of women entrepreneurs.</li></ol>  |
| 3      | Discipline Related Elective (DRE)  | Business Economics – I              | <ol style="list-style-type: none"><li>1. Understand the basic tools, and economic functional relations &amp; apply the basics of Business Economics.</li><li>2. Apply the knowledge of demand and supply function in business decisions.</li><li>3. Analyse supply and production decisions. Also, short run and long production function &amp; economies of scale.</li><li>4. Critically evaluate Business cost of production.</li></ol>  |



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|----|---|--|--|
| 4  | Ability Enhancement Compulsory Courses (AECC) | Business Communication – I               | <ol style="list-style-type: none"><li>1. Identify the nature, function &amp; scope of business communication.</li><li>2. Implement skills of effective verbal and non-verbal communication.</li><li>3. Apply written communication used in the business world.</li><li>4. Adapt to changing culture and impact of modern technology on business communication.</li><li>5. Creates information from a variety of sources and use it ethically.</li></ol>  |
| 5  | Ability Enhancement Compulsory Courses (AECC) | Environmental Studies – I                | <ol style="list-style-type: none"><li>1. Gain in-depth knowledge on environment and Ecosystem.</li><li>2. Acquire values and develop right attitudes towards natural resources type of resource, increasing demand of resources in the global world and its impacts on resources.</li><li>3. Predict the consequences of increasing the world's population, pattern of population growth and associated problems. Learners can understand the population and HDI and world happiness index.</li><li>4. Understand the urban problems due to migration and overcrowding, stress on urban environment and urban resources and concept of emerging smart cities and safe cities in India and Adopt sustainability as a practice in life, society and industry.</li></ol>  |
| 6  | Skill Enhancement Courses (SEC)               | Foundation Course – I                    | <ol style="list-style-type: none"><li>1. Develop the understanding of current challenges and issues of Indian society.</li><li>2. Sensitised approach towards social problems plaguing Indian society ability to address the same.</li><li>3. Increased awareness towards environmental issues.</li><li>4. Develop the understanding of socio- economic and human rights issues in India.</li></ol>  |
| 7. | Core Courses (CC)                             | Mathematics & Statistical Techniques - I | <ol style="list-style-type: none"><li>1. Develops understanding about share market, Mutual funds, investments other than conventional mode. Learn basic rules of counting, arrangement and selection of objects and difference between these two.</li><li>2. Convert real life problems in business to mathematical models and obtain optimum outcome. Calculate suitable average for given data-both by formula and graphical method.</li><li>3. Calculate partition values, combined mean. Learners can compare two or more series of data for consistency and variability using Range, Q.D., M.D., S.D.</li><li>4. Sharpen their knowledge about set theory. They are introduced to basic concepts of probability with simple examples. Calculate probability distribution of a random variable &amp; expected gain/loss and variance for practical problems.</li></ol> |

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## SEMESTER II

| Sr. No | Course Component                              | Course                               | Course Outcomes  |
|--------|---|--------------------------------------|--|
| 1      | Discipline Specific Elective (DSE)            | Accounting & Finance Management – II | <ol style="list-style-type: none"><li>1. Apply the theoretical foundation for the recording of financial transactions concerning: specialised areas related to non-corporate entities and for preparing the related accounts or statements.</li><li>2. Familiarise with consignment sale, its relevance, accounting of transactions in the books of consignor and consignee and ascertaining consignment profit.</li><li>3. Develop skills of preparing branch accounts, its relevance and ascertainment of branch profit.</li><li>4. Evaluate various types of general insurance; how to ascertain stock on the date of fire, calculation of claim when insurance cover is more or less than stock.</li></ol> |
| 2.     | Discipline Related Elective (DRE)             | Commerce – II                        | <ol style="list-style-type: none"><li>1. Develops an understanding of service marketing and various service strategies.</li><li>2. Recognize the difference between organised and unorganised Retail sector. Also understand the various retail formats and Retail Scenario in India &amp; Global context.</li><li>3. Acquainted with banking, insurance, logistic, BPO, KPO, LPO and ERP.</li><li>4. Correlate the different types of E-Commerce practices followed by the marketers and understand the scope of E-Commerce.</li></ol>  |
| 3.     | Discipline Related Elective (DRE)             | Business Economics – II              | <ol style="list-style-type: none"><li>1. Understand the difference between the operation of perfect competitions and monopoly.</li><li>2. Analyse the various Pricing Strategies and output decisions under Imperfect competition</li><li>3. Distinguish between different Pricing Practices followed under different market structures.</li><li>4. Understand and analyse Capital Projects evaluation.</li></ol>  |
| 4.     | Ability Enhancement Compulsory Courses (AECC) | Business Communication -II           | <ol style="list-style-type: none"><li>1. Focus on the set of skills required to be successful in a Group Discussion.</li><li>2. Understand the structure and styles of Interviews.</li></ol>   |



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|    |   |   | <ol style="list-style-type: none"><li>3. Examine the concept of a conference as a means of internal and external communication.</li><li>4. Examine the scope of public relations in the context of the modern day world.</li></ol>   |
| 5. | Ability Enhancement Compulsory Courses (AECC) | Environmental Studies – II                | <ol style="list-style-type: none"><li>1. Classify different types and sources of solid waste and play an effective role in managing the same.</li><li>2. Apply the knowledge gained on environmental problems faced due to agricultural &amp; industrial development and focus on green business practices in real life.</li><li>3. Critically evaluate the knowledge gained on Ecotourism.</li><li>4. Examine their role in Environmental Management.</li></ol>   |
| 6. | Skill Enhancement Courses (SEC)               | Foundation Course- II                     | <ol style="list-style-type: none"><li>1. Apply the concept of human and fundamental rights</li><li>2. Make them evaluate the importance of Environment Studies in the current developmental context.</li><li>3. Comprehend and address the concepts related to stress, conflict, aggression and violence.</li><li>4. Develop the mechanisms for managing different types of stress, conflict, aggression</li></ol>   |
| 7. | Core Courses (CC)                             | Mathematics & Statistical Techniques – II | <ol style="list-style-type: none"><li>1. Develops an understanding of functions and derivatives. They shall solve practical problems of applications of derivatives in business.</li><li>2. Examine the Concepts of nominal effective rate of interest. Calculate simple and compound interest. They shall solve simple problems on annuity, EMI and prepare an Amortisation table.</li><li>3. Find existence and extent of relation between two variables by graphical and mathematical method. They can estimate unknown values of correlated variables and can calculate coefficients of correlation.</li><li>4. Differentiate and solve simple problems on Binomial, Poisson and Normal distributions.</li></ol> |



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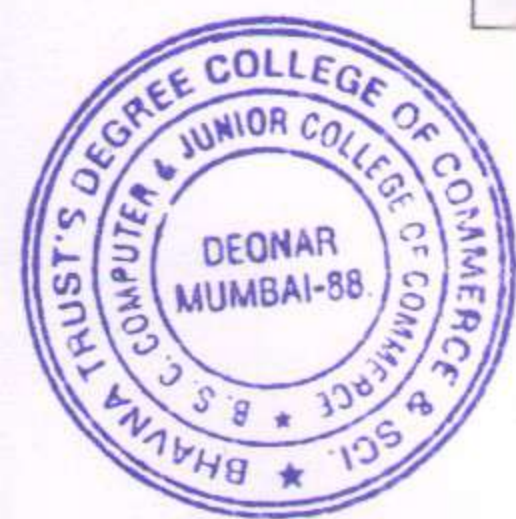
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## SEMESTER III

| Sr. No | Course Component                   | Course  | Course Outcomes   |
|--------|------------------------------------|---|---|
| 1      | Discipline Specific Elective (DSE) | Accounting & Finance Management – III                                   | <ol style="list-style-type: none"><li>1. Classify partnership firm and effects of admission retirement and death of a partner during the year.</li><li>2. Experiment distribution of cash after dissolution of the firm to various parties in prescribed manner.</li><li>3. Outline the term amalgamation and their practical effects in accounting.</li><li>4. Describe conversion or sale of partnership firms into limited companies and their benefits.</li></ol>   |
| 2.     | Discipline Specific Elective (DSE) | Financial Accounting & Auditing - Introduction to Management Accounting | <ol style="list-style-type: none"><li>1. Creates understanding of insight about the introduction of Management Accounting. Students will be able to prepare, analyse and interpret Vertical Financial Statements.</li><li>2. Interpret study about the various types of ratios &amp; their uses in an organisation</li><li>3. Calculate practical problems regarding management of Working Capital.</li><li>4. Execute practical problems regarding various techniques of Capital Budgeting.</li></ol>  |
| 3.     | Discipline Related Elective (DRE)  | Commerce – III  | <ol style="list-style-type: none"><li>1. Create an understanding of the levels of management and review the contribution of thought leaders like F. W. Taylor, Elton Mayo and Peter Drucker, Dr. C.K. Prahalad, Prof SumantraGhoshal to management; it encourages the learner to recognize the changing role of the manager.</li><li>2. Examine the fundamental functions of management.</li><li>3. Carry out the significance of Indian ethos in management and importance of various management functions in Managerial roles.</li><li>4. Aware about universal application of functions of Management.</li></ol> |
| 4.     | Discipline Related Elective (DRE)  | Business Economics – III  | <ol style="list-style-type: none"><li>1. Apply the basics of Business Economics.</li><li>2. Analyse Demand for various goods and services and evaluate demand forecasting for them.</li></ol>   |



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|----|---------------------------------|----------------------|--|
|    |                                 |                      | <ol style="list-style-type: none"><li>Analyse supply and production decisions.</li><li>Critically evaluate Business cost of production.</li></ol>  |
| 5. | Skill Enhancement Courses (SEC) | Foundation Course-II | <ol style="list-style-type: none"><li>Aware about legal and constitutional Rights and violation Redressal mechanisms of SC, ST, Women, Children Disabilities, Minorities and elderly population.</li><li>Categorize the concept of Disaster and general effects, dealing with disasters and human Rights related with rehabilitation.</li><li>Update with development of science and role in everyday life.</li><li>Evaluate the Characteristics of Negotiable Instrument, classification of Negotiable Instruments and it's Miscellaneous Provisions.</li></ol>   |
| 6. | Skill Enhancement Courses (SEC) | Advertising – I      | <ol style="list-style-type: none"><li>Develops an understanding of IMC and the importance of advertising in today's competitive world.</li><li>Develop relationship with client and select the right career in advertising.</li><li>Correlate the social and economic aspects of advertising with real life experiences and understand the importance of social advertising.</li><li>Evaluate various Brand Building strategies and analyse the trends in advertising.</li></ol>   |
| 7. | Core Courses (CC)               | Business Law -I      | <ol style="list-style-type: none"><li>Create understanding of the concept of contract, features, role of promoter, classification of contract, Agreement, kinds of Agreements, Contract- kinds of contracts, distinguish between Agreement and Contract.</li><li>Examine and evaluate Law of Indemnity and Guarantee, Law of Bailment and pledge.</li><li>Analyse Distinction between 'sale' and 'agreement of sell, Distinction between 'sale and hire-purchase agreement. They would also be aware of Rights of an unpaid seller.</li><li>Evaluate the Characteristics of Negotiable Instrument, classification of Negotiable Instruments and it's Miscellaneous Provisions.</li></ol> |



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## SEMESTER IV

| Sr. No | Course Component                   | Course                                       | Course Outcomes  |
|--------|------------------------------------|--|--|
| 1      | Discipline Specific Elective (DSE) | Accounting & Finance Management – IV         | <ol style="list-style-type: none"><li>1. Classify the company accounts and concepts of shares debentures reserves and surplus and balance sheet format as per companies act 2013.</li><li>2. Use the legal procedure for repayment of preference share.</li><li>3. Acquire knowledge of the legal procedures for redemption of Critically evaluate the knowledge gained on various auditing techniques debentures and their types.</li><li>4. Explain various basis of distribution of expenses to find out profit before and after incorporation.</li></ol> |
| 2.     | Discipline Specific Elective (DSE) | Financial Accounting and Auditing – Auditing | <ol style="list-style-type: none"><li>1. Classify different concepts of auditing, types of frauds and errors in auditing.</li><li>2. Apply the knowledge gained on audit planning and documentations and practice in real life.</li><li>3. Critically evaluate the knowledge gained on various auditing techniques.</li><li>4. Examine their role in vouching and verification.</li></ol>  |
| 3.     | Discipline Related Elective (DRE)  | Commerce – IV                                | <ol style="list-style-type: none"><li>1. Review the types of production system and list the inventory management systems.</li><li>2. Describe the structure of Indian Securities Markets and its impact on the economy.</li><li>3. Reflect on the various investment avenues available in India and describe the recent trends in the world of finance.</li><li>4. Provides basic knowledge of production management, inventory management, and quality management.</li></ol>  |
| 4.     | Discipline Related Elective (DRE)  | Business Economics – IV                      | <ol style="list-style-type: none"><li>1. Critically analyse the role of government in an economy.</li><li>2. Develop Knowledge of various aspects of public revenue and the impact of taxation on the economy.</li><li>3. Examine how public expenditure and Debt has an impact on the economy.</li><li>4. Critically evaluate various Fiscal Policies framed by the government and get insight of Budget of the government</li></ol>  |



  
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## SEMESTER V

| Sr. No | Course Component                  | Course   | Course Outcomes   |
|--------|-----------------------------------|--|---|
| 1      | Discipline Specific Elective(DSE) | Financial Accounting and Auditing VII - Financial Accounting | <ol style="list-style-type: none"><li>1. Annotating the format of company final accounts and various schedules of company final accounts.</li><li>2. Acquire information of buy-back of shares and their legal formalities.</li><li>3. Examine the provision and solve practical problems related to internal reconstruction.</li><li>4. Examining practical problems on personal investment accounting.</li></ol>  |
| 2.     | Discipline Specific Elective(DSE) | Financial Accounting and Auditing VIII - Cost Accounting     | <ol style="list-style-type: none"><li>1. Insight about the introduction of Cost Accounting and Classification of costs &amp; Preparation of Cost Sheet.</li><li>2. Creates understanding computation of material cost as per CAS 6 and labour costs.</li><li>3. Insight about the overheads costing. Classification of overheads into Primary Overheads &amp; Secondary Overheads.</li><li>4. Identify the reasons for the difference in the profits of Cost Accounting &amp; Financial Accounting by preparing a Reconciliation Statement.</li></ol> |
| 3.     | Discipline Related Elective(DRE)  | Business Economics   | <ol style="list-style-type: none"><li>1. Acquainted with the impact of the New Economic Policy and the different policy measures for Sustainable Development and Foreign Investment.</li><li>2. Outline the role of agriculture and the problems associated with the sector.</li><li>3. Execute the recent trends, role and growth of the Secondary and Tertiary sector.</li><li>4. Enhance the knowledge about the Structure, Growth and Reforms in Financial Markets.</li></ol>   |
| 4.     | Discipline Related Elective(DRE)  | Commerce V   | <ol style="list-style-type: none"><li>1. Develop an understanding of marketing ideas, marketing functions, marketing research, marketing information systems, and customer relationship management.</li><li>2. Demonstrate detailed knowledge of the marketing process's Product Decisions and Pricing Decisions.</li><li>3. Creates understanding of the Promotion and Distribution Decisions that are part of the marketing process.</li><li>4. Aware about the ethical components of marketing as well as current marketing trends</li></ol>       |



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|    |                                  |                                      | such as Green Marketing and Digital Marketing.  |
| 5. | Discipline Related Elective(DRE) | Direct & Indirect Taxation Paper I   | <ol style="list-style-type: none"><li>1. Recognise technical words associated with fundamental Concepts and direct taxation.</li><li>2. Examine residential status of an assessee and compute the taxable income of assessee with different residential status.</li><li>3. Practically Compute income from salaries, house property, business/ profession, capital gains and income from other sources.</li><li>4. Practically apply various benefits/ deductions under Chap VI-A of the Income tax act, 1961.</li></ol>  |
| 6. | Discipline Related Elective(DRE) | Export Marketing Paper I (Elective)  | <ol style="list-style-type: none"><li>1. Distinguish between the Domestic Market &amp; Export Market and also the factors that influence Export Marketing &amp; the various risks involved in the overseas market.</li><li>2. Examines the various types of Tariff &amp; Non-Tariff Barriers, the positives &amp; negatives of WTO &amp; Overseas Market selection process.</li><li>3. Acquire knowledge on Foreign Trade Policy, Role of DGFT, Benefits to status Holders and concepts relating to EOU/SEZ's/ AEZ's.</li><li>4. Acquire knowledge on Foreign Trade Policy, Role of DGFT, Benefits to status Holders and concepts relating to EOU/SEZ's/ AEZ's.</li></ol> |
| 7. | Discipline Related Elective(DRE) | Computer systems and Application - I | <ol style="list-style-type: none"><li>1. Acquire knowledge on basic computer network technology and also basics of how the internet works and awareness about security, threats and its protective measures.</li><li>2. Develop understanding on the process of Database Development and Administration using SQL and also develop the competence of database management.</li><li>3. Design and Implementation of basic database using the Oracle Database Management System</li><li>4. Apply practical knowledge &amp; exposure to MS-Excel.</li></ol>   |



  
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## SEMESTER VI

| Sr. No | Course Component                  | Course  | Course Outcomes   |
|--------|-----------------------------------|---|---|
| 1      | Discipline Specific Elective(DSE) | Financial Accounting and Auditing IX - Financial Accounting | <ol style="list-style-type: none"> <li>1. Develop annotating on foreign transactions and currency rate and their effects.</li> <li>2. Acquire knowledge on subscription of shares and debentures &amp; various types of underwriters.</li> <li>3. Acquire Practical knowledge on LLP and their accounting procedure.</li> <li>4. Identify equity share and underwriter liability and prepared underwriter statement.</li> </ol>   |
| 2.     | Discipline Specific Elective(DSE) | Financial Accounting and Auditing X - Cost Accounting       | <ol style="list-style-type: none"> <li>1. Examining emerging concepts of cost accounting.</li> <li>2. Apply the knowledge gained on marginal and standard costing.</li> <li>3. Critically evaluate the knowledge gained on cost control accounts.</li> <li>4. Classify different types of process costing and cost accounting.</li> </ol>   |
| 3.     | Discipline Related Elective(DRE)  | Business Economics VI                                       | <ol style="list-style-type: none"> <li>1. Insight of International Trade.</li> <li>2. Compare various Commercial trade policies in relation to International Trade.</li> <li>3. Develop knowledge about Balance of Payments and International Economic Organisations.</li> <li>4. Critically evaluate Foreign Exchange Market.</li> </ol>   |
| 4.     | Discipline Related Elective(DRE)  | Commerce VI   | <ol style="list-style-type: none"> <li>1. Creates understanding of human resource management, human resource planning, and recruitment and selection ideas.</li> <li>2. Demonstrate specialised knowledge of training and methods of training, as well as performance appraisal and methods of performance appraisal.</li> <li>3. Reflect Morale and Grievance Redressal are used to help students understand leadership and various theories of leadership.</li> <li>4. Use of modern trends in human resources management as well as challenges in the field</li> </ol> |
| 5.     | Discipline Related Elective(DRE)  | Direct and Indirect Taxation Paper II                       | <ol style="list-style-type: none"> <li>1. Define the different concepts and terms used in the Goods and Services Tax (GST).</li> <li>2. Use the timing, location, and value of supply in a practical way.</li> </ol>  |



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|    |                                  |                                     | <ol style="list-style-type: none"><li>3. Examine the contents and format for various documents like tax invoice, bill of supply, debit note, credit note etc.</li><li>4. Practically compute the amount of CGST, SGST and IGST payable after considering the eligible input tax credit.</li></ol>  |
| 6. | Discipline Related Elective(DRE) | Export Marketing Paper II           | <ol style="list-style-type: none"><li>1. Identify Study export marketing and promotional organisation in India.</li><li>2. Carry out export finance and export risk insurance, methods of international payments.</li><li>3. Execute the role of financial situations in commercial banks, SIDBI, EXIM Bank and ECGC.</li><li>4. Reflect export procedure, role of customs House Agent Pre-shipment and port shipment procedure, quality control procedure, customs clearance.</li></ol> |
| 7. | Discipline Related Elective(DRE) | Computer systems and Application II | <ol style="list-style-type: none"><li>1. Formulate the concept of e-commerce and its revolution.</li><li>2. Review the process of Online credit card transactions and its security.</li><li>3. Execute the Ms Excel and advanced Ms Excel commands.</li><li>4. Execute the calculations in Visual Basic using conditions, sub procedures and sub functions.</li></ol>  |



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## PROGRAMME SPECIFIC OUTCOMES (PSO)

### MASTER OF COMMERCE (MCOM)

- **PSO 1:** Gain proficiency in applying your knowledge of problem-solving.
- **PSO 2:** Ability to collaborate in teams with improved interpersonal and communication skills
- **PSO 3:** To develop team work, leadership and managerial and administrative skills
- **PSO 4:** Able to recognize features and roles of businessmen, entrepreneurs, managers, consultants, which will help learners to possess knowledge and other soft skills and to react aptly when confronted with critical decision making.

## COURSE OUTCOME (CO)

### MASTER OF COMMERCE (MCOM)

#### SEMESTER I

| S<br>r.<br>N<br>o | Course<br>Component  | Course                  | Course Outcomes   |
|-------------------|----------------------|-------------------------|---|
| 1                 | Core Courses<br>(CC) | Strategic<br>Management | <ol style="list-style-type: none"><li>1. Expose various perspectives and concepts in the field of Strategic Management.</li><li>2. Annotating the principles of strategy formulation, implementation and control in organisations.</li><li>3. Enhance skills for applying these concepts to the solution of business problems,</li><li>4. Exemplifying the analytical tools of strategic management</li></ol> |



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|   |                   |   |  |
|---|-------------------|---|--|
| 2 | Core Courses (CC) | Economics for Business Decisions                    | <ol style="list-style-type: none"><li>1. Equip the students with basic tools of economic theory and its practical applications.</li><li>2. Familiarise with economic aspects of current affairs and thereby prepares them to analyse the market behaviour with economic way of thinking.</li><li>3. Executing economic principles in business decisions, it also intends to widen analytical ability of the students and to provide them a foundation for further study of economics.</li><li>4. Highlight practical oriented study, the paper requires discussion of some cases involving the use of concepts of business economics</li></ol>   |
| 3 | Core Courses (CC) | Cost and Management Accounting                      | <ol style="list-style-type: none"><li>1. Acquire knowledge about the Accounting Standards issued by ICAI, its relevance to India in maintenance of accounts, disclosure and revenue recognition. Gain knowledge on various methods of stock valuation; methods which are recognised under AS-2, impact on profit if a method is changed.</li><li>2. Recognize capital and revenue – expenditure and receipts &amp; distinction between them. Learners shall solve practical problems on Final Accounts of Manufacturing Concern.</li><li>3. Develop the skill of preparing final accounts for departmental stores, allocation of cost among different departments on a suitable basis.</li><li>4. Develop the skill of accounting for hire purchase transactions, calculation of interest, depreciation etc.</li></ol> |
| 4 | Core Courses (CC) | Business Ethics and Corporate Social Responsibility | <ol style="list-style-type: none"><li>1. Distinguish common ethical issues that arise for individuals, managers, and organisations.</li><li>2. Engage in logically sound discussion about moral dilemmas using the language of business ethics.</li><li>3. Differentiate organisational and cultural variables can influence ethical conduct.</li><li>4. Pick out key organisational tools, policies, systems, and laws that apply to managing ethical conduct specifically in the business environment. Demonstrate a multi-stakeholder perspective in viewing CSR issues</li></ol>   |

  
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## SEMESTER II

| Sr. No | Course Component  | Course                                    | Course Outcomes   |
|--------|-------------------|---|---|
| 1      | Core Courses (CC) | Research Methodology for Business         | <ol style="list-style-type: none"><li>1. Enhance the abilities of learners to undertake research in business &amp; social sciences</li><li>2. Construct, develop and apply the fundamental skills in formulating research problems</li><li>3. Interpret and develop the most appropriate methodology for their research</li><li>4. Familiarise with the basic statistical tools and techniques applicable for research</li></ol>  |
| 2      | Core Courses (CC) | Macro Economics Concepts and Applications | <ol style="list-style-type: none"><li>1. Integrate application-oriented nature of macroeconomics course in order to grasp fully the theoretical rationale behind policies at the country as well as corporate level</li><li>2. Moderate a firm grounding on the basic macroeconomic concepts that strengthen analysis of crucial economic policies</li><li>3. Continuously read suggested current readings and related articles in the dailies and journals are analysed class rooms</li><li>4. Devising a solid foundation for economic analysis and thinking that can last throughout their education and subsequent professional careers</li></ol> |
| 3      | Core Courses (CC) | Corporate Finance                         | <ol style="list-style-type: none"><li>1. Identify the abilities of learners to develop the objectives of Financial Management</li><li>2. Relate, develop and apply the techniques of investment in the financial decision making in the business corporates</li><li>3. Construct the abilities of learners to analyse the financial statements</li><li>4. Familiarise students to practical accounting practices in corporate entities such as Holding &amp; Subsidiary Companies</li></ol>   |
| 4      | Core Courses (CC) | E-Commerce                                | <ol style="list-style-type: none"><li>1. Estimate an analytical framework to understand the emerging world of ecommerce</li><li>2. Familiarise with current challenges and issues in ecommerce</li><li>3. Devise the understanding of the learners towards various business models</li><li>4. Articulate the Web- based Commerce and equip the learners to assess e-commerce requirements of a business</li></ol>   |



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## SEMESTER III – Advanced Accountancy

| Sr. No | Course Component      | Course                        | Course Outcomes  |
|--------|-----------------------|-------------------------------|--|
| 1      | Elective Courses (EC) | Direct Tax                    | <ol style="list-style-type: none"><li>1. Recognise technical words associated with fundamental Concepts and direct taxation.</li><li>2. Examine residential status of an assessed and compute the taxable income of assessed with different residential status</li><li>3. Practically Compute income from salaries, house property, business/ profession, capital gains and income from other sources.</li><li>4. Practically apply various benefits/ deductions under Chap VI-A of the Income tax act, 1961.</li></ol>  |
| 2      | Elective Courses (EC) | Advanced Financial Accounting | <ol style="list-style-type: none"><li>1. Acquire knowledge about the Accounting Standards issued by ICAI, its relevance to India in maintenance of accounts, disclosure and revenue recognition. Gain knowledge on various methods of stock valuation; methods which are recognised under AS-2, impact on profit if a method is changed.</li><li>2. Recognize capital and revenue – expenditure and receipts &amp; distinction between them. Learners shall solve practical problems on Final Accounts of Manufacturing Concern.</li><li>3. Develop the skill of preparing final accounts for departmental stores, allocation of cost among different departments on a suitable basis.</li><li>4. Develop the skill of accounting for hire purchase transactions, calculation of interest, depreciation etc.</li></ol> |
| 3      | Elective Courses (EC) | Advanced Cost Accounting      | <ol style="list-style-type: none"><li>1. Acquire knowledge related to costing concept and methods under ICWAI</li><li>2. Recognize and analyse the unit cost and job costing</li><li>3. Develop the skill of preparing the process costing with normal and abnormal loss</li><li>4. Able to understand the standard costing methods and use</li></ol>  |
| 4      |                       | Project Work                  | <ol style="list-style-type: none"><li>1. Apply the fundamental aspects associated with the project.</li><li>2. Evaluate the fundamental aspects associated with the project.</li><li>3. Understand the topic selected fully and to use it for practical purposes.</li><li>4. Analyse fully the data received and collected through primary and secondary methods of data collection.</li></ol>   |



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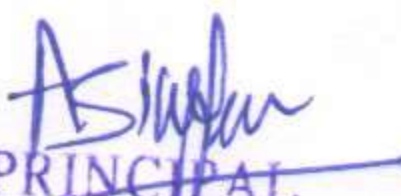
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## SEMESTER IV

| Sr. No | Course Component      | Course                            | Course Outcomes  |
|--------|-----------------------|-----------------------------------|--|
| 1      | Elective Courses (EC) | Advanced Accountancy              | <ol style="list-style-type: none"><li>1. Able to prepare the final accounts of companies</li><li>2. Analyse the internal or external reconstructions of companies</li><li>3. Able to know the liquidator's final statement of accounts</li><li>4. Examine consolidated financial statement and balance sheet for holding companies</li></ol>   |
| 2      | Elective Courses (EC) | Indirect Tax- Introduction of GST | <ol style="list-style-type: none"><li>1. Define the different concepts and terms used in the Goods and Services Tax (GST).</li><li>2. Use the timing, location, and value of supply in a practical way.</li><li>3. Examine the contents and format for various documents like tax invoice, bill of supply, debit note, credit note etc</li><li>4. Practically compute the amount of CGST, SGST and IGST payable after considering the eligible input tax credit.</li></ol> |
| 3      | Elective Courses (EC) | Financial Management              | <ol style="list-style-type: none"><li>1. Analyse Working Capital financing</li><li>2. The dimensions of performance and risk relevant to financial firms.</li><li>3. contemporary measures of financial measures of performance and risk.</li><li>4. Evaluate the economic environment and the impact of governmental economic policies on consumers and financial institutions.</li></ol>   |
| 4      |                       | Project Work                      | <ol style="list-style-type: none"><li>1. Apply the fundamental aspects associated with the project.</li><li>2. Evaluate the fundamental aspects associated with the project.</li><li>3. Understand the topic selected fully and to use it for practical purposes.</li><li>4. Analyse fully the data received and collected through primary and secondary methods of data collection.</li></ol>   |



  
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### SEMESTER V

| Sr. No | Course Component      | Course                             | Course Outcomes  |
|--------|-----------------------|------------------------------------|--|
| 1      | Elective Courses (EC) | Human Resource Management          | <ol style="list-style-type: none"> <li>1. Develop the decision-making skills in different situations and enhance the skills regarding specific work.</li> <li>2. Develop the competency mapping skills, self, peers, superiors and subordinate appraisal skills.</li> <li>3. Able to know after completing this about the various aspects of the personal as well as professional life and try to balance between these both.</li> <li>4. Develop the sense of belongings for the organisation and various HRD issues</li> </ol> |
| 2      | Elective Courses (EC) | Organisational Behaviour           | <ol style="list-style-type: none"> <li>1. Develop the perceptual concept and a technique of learning.</li> <li>2. Able to enhance knowledge of the various aspects of the individual life positions and ego state and accordingly reacts to them.</li> <li>3. Developing the basic understanding of the individual behaviour helps to understand the personality of others and adopt it if it seems good.</li> <li>4. Apply the basic concept of organisational behaviour.</li> </ol>  |
| 3      | Elective Courses (EC) | Marketing Strategies and practices | <ol style="list-style-type: none"> <li>1. Able to understand and establish a better customer relationship</li> <li>2. Examine market environmental trends &amp; building customer value related to market</li> <li>3. Able to develop different marketing strategies and plan</li> <li>4. Analyse recent trends in marketing strategies.</li> </ol>  |
| 4      |                       | Project Work                       | <ol style="list-style-type: none"> <li>1. Apply the fundamental aspects associated with the project.</li> <li>2. Evaluate the fundamental aspects associated with the project.</li> <li>3. Understand the topic selected fully and to use it for practical purposes.</li> <li>4. Analyse fully the data received and collected through primary and secondary methods of data collection</li> </ol>   |



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## SEMESTER VI

| Sr. No | Course Component      | Course                           | Course Outcomes  |
|--------|-----------------------|----------------------------------|--|
| 1      | Elective Courses (EC) | Business Management              | <ol style="list-style-type: none"><li>1. Apply knowledge of all functional areas of retailing and essential principles of retailing.</li><li>2. Able to understand retail management terminology.</li><li>3. Develop a sense of legal and ethical aspects of retail management</li><li>4. Demonstrate the skills needed to develop ideas and make decisions based on ethics, proper research, analysis, and critical thinking.</li></ol>                 |
| 2      | Elective Courses (EC) | Management of Business Relations | <ol style="list-style-type: none"><li>1. Acquire knowledge related designing and developing customer Value in relation to CRM and E-CRM</li><li>2. Recognize and develop information related Supplier, Investors and Community Relationship Management</li><li>3. Develop the concept related to employee relationship management and strategic framework for ERM</li><li>4. Apply role, qualities and skill related business relation manager</li></ol> |
| 3      | Elective Courses (EC) | Advertising and sales Management | <ol style="list-style-type: none"><li>1. Acquire knowledge and recognition related to creativity, social and regulatory framework of advertising</li><li>2. Recognize the concepts sales force management and sales organisation</li><li>3. Develop basics concepts related to Advertising, Ad Agency and media</li><li>4. Evaluate the fundamental aspects related to sales planning and controlling</li></ol>  |
| 4      |                       | Project Work                     | <ol style="list-style-type: none"><li>1. Apply the fundamental aspects associated with the project.</li><li>2. Evaluate the fundamental aspects associated with the project.</li><li>3. Understand the topic selected fully and to use it for practical purposes.</li><li>4. Analyse fully the data received and collected through primary and secondary methods of data collection.</li></ol>   |



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## PROGRAMME SPECIFIC OUTCOMES (PSO)

### Bachelor of Management Studies (BMS)

- **PSO 1:** Establish a solid academic basis by taking classes in both the management field and other, more specialised subjects, such as management, communication, teamwork, leadership, ethics, and integrity, as well as courses on decision-making and problem-solving skills.
- **PSO 2:** Develop your critical thinking skills across a range of topics to help you create an informed, autonomous viewpoint.
- **PSO 3:** Ability to understand and commit to personal and professional ethics, responsibilities and code of conduct of management practices.
- **PSO 4:** To comprehend the effects of management actions on sustainability and the environment, to be sensitive to those effects, and to take the necessary precautions to reduce any new risks.

## COURSE OUTCOMES (PSO)

### Bachelor of Management Studies (BMS)

#### SEMESTER I

| Sr. No | Course Component      | Course                               | Course Outcomes  |
|--------|-----------------------|--------------------------------------|--|
| 1      | Elective Courses (EC) | Introduction to Financial Accounting | <ol style="list-style-type: none"><li>1. Acquire knowledge about the Accounting Standards issued by ICAI, its relevance to India in maintenance of accounts, disclosure and revenue recognition. Gain knowledge on various methods of stock valuation; methods which are recognised under AS-2, impact on profit if a method is changed.</li><li>2. Recognize capital and revenue – expenditure and receipts &amp; distinction between them. Learners shall solve practical problems on Final Accounts of Manufacturing Concern.</li><li>3. Develop the skill of preparing final accounts for departmental stores, allocation of cost among different departments on a suitable basis.</li></ol> |



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|   |  |                            |  |
|---|--|----------------------------|--|
|   |  |                            | 4. Develop the skill of accounting for hire purchase transactions, calculation of interest, depreciation etc.  |
| 2 | Ability Enhancement Compulsory Course (AECC) | Business Communication-1   | <ol style="list-style-type: none"><li>1. Identify the nature, function &amp; scope of business communication.</li><li>2. Implement skills of effective verbal and non-verbal communication.</li><li>3. Apply written communication used in the business world.</li><li>4. Adapt to changing culture and impact of modern technology on business communication.</li></ol>   |
| 3 | Skill Enhancement Courses (SEC)              | Foundation Course-1        | <ol style="list-style-type: none"><li>1. Examine the overview of the Indian Society.</li><li>2. Creates understanding of the constitution of India &amp; the disparity in Indian society.</li><li>3. Investigate the socio-political problems of India.</li><li>4. Creates understanding of the Political Party of India</li></ol>   |
| 4 | Core Courses (CC)                            | Business Economics         | <ol style="list-style-type: none"><li>1. Understand the basic tools, and economic functional relations &amp; apply the basics of Business Economics.</li><li>2. Apply the knowledge of demand and supply function in business decisions.</li><li>3. Analyse supply and production decisions. Also, short run and long production function &amp; economies of scale.</li><li>4. Critically evaluate Business cost of production.</li></ol>  |
| 5 | Elective Courses (EC)                        | Business Law               | <ol style="list-style-type: none"><li>1. Create understanding of the concept of contract, features, role of promoter, classification of contract, Agreement, kinds of Agreements, Contract- kinds of contracts, distinguish between Agreement and Contract.</li><li>2. Examine and evaluate Law of Indemnity and Guarantee, Law of Bailment and pledge.</li><li>3. Analyse Distinction between 'sale' and 'agreement of sell, Distinction between 'sale and hire-purchase agreement. They would also be aware of Rights of an unpaid seller.</li><li>4. Evaluate the Characteristics of Negotiable Instrument, classification of Negotiable Instruments and it's Miscellaneous Provisions.</li></ol> |
| 6 | Core Courses (CC)                            | Foundation of Human skills | <ol style="list-style-type: none"><li>1. Examine human nature.</li><li>2. Outline how motivation operates in organisational behaviour , theories of motivation in an organisational set up .</li></ol>   |



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|---|--|---------------------|---|
|   |  |                     | <ol style="list-style-type: none"> <li>Investigate the impact of motivation in the workplace.</li> <li>Examine causes and consequences of job stress, Ways for coping up with job stress.</li> </ol>  |
| 7 |  | Business Statistics | <ol style="list-style-type: none"> <li>Encourage to make use of statistics in day -to - day life methods within the context they are to be applied.</li> <li>Understanding the fundamental Statistical Tools which can help them in analysing the business data.</li> <li>Ability to deal with numerical and quantitative issues in business Analyse and contrast techniques and bases of Quantitative.</li> <li>Examine issues surrounding sampling and significance.</li> </ol> |

### SEMESTER II

| Sr. No | Course Component                             | Course                   | Course Outcomes   |
|--------|--|--------------------------|---|
| 1      | Core Courses (CC)                            | Business Environment     | <ol style="list-style-type: none"> <li>Examine and applying practical knowledge about the different components of National and International Business Environment.</li> <li>Comprehend and address the Political and Legal environment and Develop Social and Cultural Environment, Technological environment and Competitive Environment.</li> <li>Develop the environment of a business from the legal &amp; regulatory, macroeconomic, cultural, political, technological and natural perspectives</li> <li>Evaluate the specific component of the business environment and relate it to your own organisation.</li> </ol> |
| 2      | Ability Enhancement Compulsory Course (AECC) | Business Communication-2 | <ol style="list-style-type: none"> <li>Focus on the set of skills required to be successful in a Group Discussion.</li> <li>Understand the structure and styles of Interviews</li> <li>Examine the concept of a conference as a means of internal and external communication.</li> <li>Examine the scope of public relations in the context of the modern-day world.</li> </ol>   |



  
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|   |                                 |                          |   |
|---|---------------------------------|--------------------------|---|
| 3 | Skill Enhancement Courses (SEC) | Foundation Course-II     | <ol style="list-style-type: none"><li>1. Apply the concept of human and fundamental rights.</li><li>2. Make them evaluate the importance of Environment Studies in the current developmental context.</li><li>3. Comprehend and address the concepts related to stress, conflict, aggression and violence.</li><li>4. Develop the mechanisms for managing different types of stress, conflict, aggression</li></ol> |
| 4 | Core Courses (CC)               | Principles of Management | <ol style="list-style-type: none"><li>1. Understand the concepts related to Business.</li><li>2. Understanding the characteristics and skills of proper management by identifying what successful managers do.</li><li>3. Demonstrate the roles, skills and functions of management</li><li>4. Illustrate the diverse learning opportunities for developing analytical and soft skills</li></ol>                    |
| 5 | Elective Courses (EC)           | Industrial law           | <ol style="list-style-type: none"><li>1. Be aware of the present state of Industrial relations in India.</li><li>2. Be acquainted with the concepts, principles and issues connected with trade unions.</li><li>3. Understand the various processes and procedures of handling Employee Relations.</li><li>4. Focus on the laws relating to Industrial Relations, Social Security and Working conditions.</li></ol> |
| 6 | Elective Courses (EC)           | Principles of Marketing  | <ol style="list-style-type: none"><li>1. Evaluate the basics of 4P's and 4C's of marketing.</li><li>2. Exhibit the challenges in marketing concepts. Elaborate the difference between macro and micro environment.</li><li>3. Highlight the role of research in marketing.</li><li>4. Examine new trends in marketing – E-marketing, Internet marketing and marketing using Social networks.</li></ol>              |
| 7 | Elective Courses (EC)           | Business Mathematics II  | <ol style="list-style-type: none"><li>1. Understand and calculate ratio, proportion &amp; percentage.</li><li>2. Evaluate concepts &amp; calculate interest &amp; annuity.</li><li>3. Evaluate simple problems on shares and mutual fund.</li><li>4. Demonstrate to solve practical sums on profit and loss.</li></ol>  |



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## SEMESTER III

| Sr. No | Course Component                  | Course   | Course Outcomes  |
|--------|-----------------------------------|--|--|
| 1      | Ability Enhancement Courses (AEC) | IT in Management-I                             | <ol style="list-style-type: none"><li>1. Outline the basic concepts and its applications in managing business.</li><li>2. Demonstrate Office Automation using MS-Office.</li><li>3. Examine the computer network and its applications.</li><li>4. Investigate the concept of E-security</li></ol>  |
| 2      | Core Courses (CC)                 | Business planning & entrepreneurial Management | <ol style="list-style-type: none"><li>1. Able to define, identify and/or apply the principles of entrepreneurial management and growth through strategic plans, consulting projects and/or implementing their own businesses</li><li>2. Understand the basic concepts of Entrepreneurship to budding managers.</li><li>3. Develop responsibility of full line of management function of a company with special reference to SME sector.</li><li>4. Demonstrate the systematic process and to select and screen a business idea</li></ol> |
| 3      | Core Courses (CC)                 | Accounting for Managerial Decisions            | <ol style="list-style-type: none"><li>1. Understand the utility of Ratio Analysis, Financial Statements and Cash Flow Analysis in any organisation.</li><li>2. Develop financial analysis skills among learners.</li><li>3. Comprehend different contemporary issues in Management Accounting and Reports &amp; Reporting needs.</li><li>4. Analyse various techniques to various domains concerned with accounting-based applications and solutions</li></ol>   |
| 4      | Skill Enhancement Courses (SEC)   | Foundation course-3                            | <ol style="list-style-type: none"><li>1. Defend and justify Human Rights Provisions, Violations and Redressal.</li><li>2. Evaluate and develop various environmental concerns.</li><li>3. Analyse the development, nature and superstition of Science and Technology.</li><li>4. Create Soft Skills for Effective Interpersonal Communication</li></ol>  |
| 5      | Core Courses (CC)                 | Strategic Management                           | <ol style="list-style-type: none"><li>1. Evaluate the strategic management process to analyse and improve organisational performance.</li><li>2. Outline the impact of social, economic and political forces on the design, planning and implementation of organisation's policy.</li></ol>  |



  
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|---|-----------------------|---------------------------|--|
|   |                       |                           | <ol style="list-style-type: none"><li>3. Examine the management of the entire enterprise from the top management viewpoints.</li><li>4. Investigate the corporate level policy and strategy formulation areas and develop conceptual skills in this area as well as their application in the corporate world.</li></ol>  |
| 6 | Elective Courses (EC) | Motivation and Leadership | <ol style="list-style-type: none"><li>1. Apply knowledge of the leadership strategies for motivating people and changing organisations.</li><li>2. Analyse how leaders, facilitate group development and problem solving.</li><li>3. Examine approaches to Motivation and Leadership &amp; its application in the Organisation.</li><li>4. Understand work through problems and issues as well as transcend the differences</li></ol>  |
| 7 | Elective Courses (EC) | Recruitment and Selection | <ol style="list-style-type: none"><li>1. Focus on in-depth insight into various aspects of Human Resource management in an organisation.</li><li>2. Examine the various process and procedure about Recruitment and Selection.</li><li>3. Understand acquainted with practical aspects of the subject.</li><li>4. Able to analysis job, job design and induction as well</li></ol>   |
| 8 | Elective Courses (EC) | Advertising               | <ol style="list-style-type: none"><li>1. Acquire knowledge on evolution, theories, ethics and laws &amp; impact of advertising.</li><li>2. Evaluate the planning process and frame the advertising strategies effectively. understand the role of advertising agencies &amp; marketing mix in advertising.</li><li>3. Develop the understanding of creativity and role of creativity in different media.</li><li>4. Evaluate the budget, effectiveness, current trends &amp; Careers in advertising.</li></ol> |
| 9 | Elective Courses (EC) | Consumer Behaviour        | <ol style="list-style-type: none"><li>1. Able to identify the dynamics of human behaviour and the basic factors that influence the consumers' decision process.</li><li>2. Able to demonstrate how concepts may be applied to marketing strategy.</li><li>3. Examine about the different consumer decision making models.</li><li>4. Understand the importance of consumer behaviour in marketing and differential consumer behaviour in Indian Context.</li></ol>   |



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|    |                       |                                 |   |
|----|-----------------------|---------------------------------|---|
| 10 | Elective Courses (EC) | Introduction to Cost Accounting | <ol style="list-style-type: none"> <li>1. Understand the basic concepts and the tools used in Cost Accounting.</li> <li>2. Examine the principles and procedure of Cost Accounting and to apply them to different practical situations.</li> <li>3. Demonstrate reconciliation of cost sheet and financial accounts.</li> <li>4. Able to solve problems related to Process Costing, Job Costing, Cost Classification etc</li> </ol> |
| 11 | Elective Courses (EC) | Corporate Finance               | <ol style="list-style-type: none"> <li>1. Able to estimate company's cost of capital.</li> <li>2. Analyse the relationship between strategic decision making and corporate financing decisions.</li> <li>3. Able to value stocks and bonds and assess risk and return of assets.</li> <li>4. Understand overall knowledge about the mobilisation of funds.</li> </ol>   |

## SEMESTER IV

| Sr. No | Course Component                  | Course                                  | Course Outcomes   |
|--------|-----------------------------------|---|---|
| 1      | Ability Enhancement Courses (AEC) | IT in Management-2                      | <ol style="list-style-type: none"> <li>1. Examine the components of the Information Systems.</li> <li>2. Analyze the implementation of Enterprise Resource Planning (ERP), Supply Chain Management (SCM), Customer Relationship Management (CRM and e-CRM).</li> <li>3. Understand the concept of Database Management Systems (DBMS), Data Mining, Data Warehousing and their importance.</li> <li>4. Evaluate how outsourcing saves time , reduces costs for an enterprise.</li> </ol> |
| 2      | Core Courses (CC)                 | Production and Total Quality Management | <ol style="list-style-type: none"> <li>1. Able to understand basics of productivity and total quality management.</li> <li>2. Apply the basic knowledge of quality in production.</li> <li>3. Able to understand the designing of aspects of production systems.</li> <li>4. Understand various inventory control techniques and materials management.</li> </ol>   |
| 3      | Core Courses (CC)                 | Business Research Methods               | <ol style="list-style-type: none"> <li>1. Examine knowledge of the use of tools and techniques for exploratory, conclusive and causal research.</li> <li>2. Able to understand the concept of measurement in empirical systems.</li> </ol>  |



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|   |                                 |                                 |  |
|---|---------------------------------|---------------------------------|--|
|   |                                 |                                 | <ol style="list-style-type: none"><li>3. Able to use statistical techniques for analysis of research data.</li><li>4. Examine diverse learning opportunities to develop analytical and soft skills through Research</li></ol>  |
| 4 | Core Courses (CC)               | Business Economics              | <ol style="list-style-type: none"><li>1. Able to understand the concepts related to Macro Economics</li><li>2. Understand the concepts of macro economics in order to analyze and make optimal business decisions.</li><li>3. Analyse the role of public policy in shaping those application in Organisation markets.</li><li>4. Examine the role of public policy in shaping those global level</li></ol>   |
| 5 | Skill Enhancement Courses (SEC) | Foundation Course-4             | <ol style="list-style-type: none"><li>1. Focus on teams, execute task assigned and perform on timelines set.</li><li>2. Understand emerging trends and growing importance of good Governance and CSR by organizations.</li><li>3. Creates understanding of competitive exams.</li><li>4. Examine their knowledge on Science and Technology</li></ol>   |
| 6 | Elective Courses (EC)           | Change Management               | <ol style="list-style-type: none"><li>1. Comprehend students about the organisational environment for creativity and innovation.</li><li>2. Examine the concept of resistance to change and also share insights on how to manage such resistance.</li><li>3. Understanding organizational change facilitators using the knowledge and techniques of behavioural science.</li><li>4. Examine the changing norms, laws and implement them as per the need of ever-changing policies and strategies of Corporates.</li></ol>                              |
| 7 | Elective Courses (EC)           | Training and Development in HRM | <ol style="list-style-type: none"><li>1. Understand the managerial performance and ability to observe, interpret the issues and modify employee's approach and behaviour.</li><li>2. Focus on the various Training and Development programs to be conducted by an organisation for the development of its Human Resource.</li><li>3. Able to meet the specific needs of the organisations in Training and Development activities.</li><li>4. Examine the concepts of Training and Development provided by an organisation for its employees.</li></ol> |



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|    |                       |                                    |  |
|----|-----------------------|------------------------------------|--|
| 8  | Elective Courses (EC) | Auditing                           | <ol style="list-style-type: none"><li>1. Apply the knowledge gained on audit planning and documentations and practice in real life.</li><li>2. Critically evaluate the knowledge gained on various auditing techniques.</li><li>3. Examine their role in vouching and verification.</li><li>4. Examine different concepts of auditing, types of frauds and errors in auditing</li></ol>  |
| 9  | Elective Courses (EC) | Strategic Cost Finance             | <ol style="list-style-type: none"><li>1. Apply alternative cost accounting method.</li><li>2. Examine cost drivers</li><li>3. Examine marginal concepts for decision making.</li><li>4. Develop skills of analysis, evaluation and synthesis in cost and management accounting.</li></ol>  |
| 10 | Elective Courses (EC) | Integrated Marketing Communication | <ol style="list-style-type: none"><li>1. Understand the various tools of IMC and the importance of coordinating them for an effective marketing communication.</li><li>2. Develop a managerial perspective and an informed decision-making ability for effective and efficient tackling of promotional situations.</li><li>3. Understand the basic principles of planning and execution in marketing communications.</li><li>4. Demonstrate commitment to ethical practices of tourism</li></ol>   |
| 11 | Elective Courses (EC) | Rural Marketing                    | <ol style="list-style-type: none"><li>1. Able to understand the effort put by the government in rural development and the problems in the rural market and the ways to overcome it.</li><li>2. Apply knowledge about the consumer behaviours in rural areas and their characteristics.</li><li>3. Able to understand the nature of competition in rural markets and the use of marketing mix by manufacturers.</li><li>4. Understand the rural aspects of marketing and consumer behaviour and the abilities to design effective strategies.</li></ol> |



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## SEMESTER V

| Sr. No | Course Component      | Course                                       | Course Outcomes  |
|--------|-----------------------|--|--|
| 1      | Elective Courses (EC) | Corporate Communication and Public Relations | <ol style="list-style-type: none"><li>1. Understand the concepts of Corporate Communication and Public Relations.</li><li>2. Evaluate various aspects and theories of Public Relations.</li><li>3. Understand the concepts of Corporate Communication and Public Relations.</li><li>4. Demonstrate various Mass Media laws and use of technology and correspondence in day- today activities of an organization.</li></ol>   |
| 2      | Core Courses (CC)     | Logistics and Supply Chain Management        | <ol style="list-style-type: none"><li>1. Develop skills for planning, designing the operational facilities of supply chain with the analytical and critical point of view.</li><li>2. Focus on the concepts applied in Logistics and Supply Chain Management.</li><li>3. Understand how logistics play an important role in redefining value chain globally.</li><li>4. Examine concepts like inbound and outbound Logistics, offshore and inshore logistic</li></ol>  |
| 3      | Elective Courses (EC) | Investment Analysis and Portfolio Management | <ol style="list-style-type: none"><li>1. Apply short term &amp; long-term investments avenues and will be able to develop Portfolio Management.</li><li>2. Understand various model &amp; techniques of security portfolio analysis.</li><li>3. Analyse concept of risk &amp; return associated with various investments avenues.</li><li>4. Examine the term such as Beta &amp; capital Assets Pricing Model for better correlation in practical world.</li></ol>   |
| 4      | Elective Courses (EC) | Wealth Management                            | <ol style="list-style-type: none"><li>1. Focus on effective implementation of portfolio management strategies within the context of alternative investment requirements and risk criteria</li><li>2. Understand the performance of alternative investment portfolios in Wealth Management.</li><li>3. Examine effectiveness of performance evaluation techniques of Wealth Management.</li><li>4. Develop the various approaches of managing Personal Finance by planning their finance such as retirement planning.</li></ol> |



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|   |                       |                                  |  |
|---|-----------------------|----------------------------------|--|
| 5 | Elective Courses (EC) | Commodity and Derivative Markets | <ol style="list-style-type: none"><li>1. Examine the various concepts related to commodity and derivatives.</li><li>2. Evaluate the various exemptions available under section 10.</li><li>3. Able to calculate income from Salary, House property, Capital Gain, Business and Profession, Other Sources.</li><li>4. Apply deductions under section 80 while calculating net taxable income.</li></ol> |
| 6 | Elective Courses (EC) | Financial Accounting             | <ol style="list-style-type: none"><li>1. Understand provisions relating to underwriting of shares and debentures</li><li>2. Evaluate the consolidation process and prepare consolidated financial statements based on relevant accounting Standards</li><li>3. Understand the final accounts of companies.</li><li>4. Demonstrate accounting of foreign currency and investments</li></ol>             |
| 7 | Elective Courses (EC) | Sales and Distribution           | <ol style="list-style-type: none"><li>1. Apply the concepts related to sales management and distribution channel management.</li><li>2. Develop understanding of the sales &amp; distribution processes in organisations.</li><li>3. Examine the practical approach related sales and distribution</li><li>4. Examine concepts, approaches and the practical aspects of the key decision.</li></ol>    |
| 8 | Elective Courses (EC) | Service Marketing                | <ol style="list-style-type: none"><li>1. Analyze distinctive features of services and key elements in services marketing.</li><li>2. Apply insight into ways to improve service quality and productivity.</li><li>3. Evaluate marketing of different services at National Level (Indian context).</li><li>4. Examine Recent Trends in Marketing Of Services in various industry</li></ol>              |
| 9 | Elective Courses (EC) | E-Commerce                       | <ol style="list-style-type: none"><li>1. Understand increasing significance of E-commerce and its applications in business and various sectors.</li><li>2. Demonstrate an understanding of the foundations and importance of E-commerce analyse the impact of E-commerce on business models and strategy.</li><li>3. Examine the infrastructure for E-commerce.</li></ol>                              |



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|----|-----------------------|----------------------------------|---|
|    |                       |                                  | 4. Examine the key features of the Internet, Intranets and Extranets and explain how they relate to each other.   |
| 10 | Elective Courses (EC) | Customer Relationship Management | <ol style="list-style-type: none"><li>1. Apply the concept of CRM, the benefits delivered by CRM, the contexts in which it is used, the technologies that are deployed and how it can be implemented.</li><li>2. Evaluate how CRM practices and technologies enhance the achievement of marketing, sales and service objectives throughout the customer life-cycle stages of customer acquisition, retention and development whilst simultaneously supporting broader organisational goals.</li><li>3. Implement various technological tools for data mining and also successful implementation of CRM in the Organisations.</li><li>4. Design customer relationship management strategies by understanding customers' preferences for the long-term sustainability of the Organisations.</li></ol> |
| 11 | Elective Courses (EC) | Industrial Relations             | <ol style="list-style-type: none"><li>1. Apply the essential concepts of industrial relations and their interrelationship at the personal, organisational and national levels.</li><li>2. Evaluate labour relations, industrial relations systems, and participatory processes at work.</li><li>3. Demonstrate the various procedures concerning worker participation and participatory institutions and instruments of trade union representation.</li><li>4. Examine the application concepts of Industrial Relations and the system in which it operates.</li></ol>  |
| 12 | Elective Courses (EC) | Strategic HRM                    | <ol style="list-style-type: none"><li>1. Develop, implement, and evaluate employee orientation, training, and development programs.</li><li>2. Evaluate HRM functions and working of corporate strategies and policies.</li><li>3. Understand human resource management from a strategic perspective of policies.</li><li>4. Demonstrate the relationship between strategic human resource Management and organisational performance.</li></ol>   |
| 13 | Elective Courses (EC) | Finance for HR                   | <ol style="list-style-type: none"><li>1. Analyse the various dimensions of Compensation Management used by the</li></ol>  |



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|    |                       |                                   |  |
|----|-----------------------|-----------------------------------|--|
|    |                       |                                   | <p>companies to attract, retain, motivate and to reward employee performance.</p> <ol style="list-style-type: none"> <li>Evaluating the various compensation plans available for Human Resources.</li> <li>Understanding HR professionals within financial concepts to enable them to make Prudent HR decisions.</li> <li>Examine the various dimensions of Compensation Management used by the companies to attract, retain, motivate and to reward employee performance</li> </ol> |
| 14 | Elective Courses (EC) | Performance and Career Management | <ol style="list-style-type: none"> <li>Apply the various methods of motivation for under-performing and high performing team members of an organisation.</li> <li>Evaluating performance appraisal Techniques and methods for employees.</li> <li>Understanding the concept of performance management in organisations.</li> <li>Demonstrate the significance of career planning and practices through performance appraisal.</li> </ol>   |

## SEMESTER VI

| Sr. No | Course Component  | Course             | Course Outcomes  |
|--------|-------------------|--------------------|--|
| 1      | Core Courses (CC) | Operation Research | <ol style="list-style-type: none"> <li>Examine how to Interpret and apply the results of an operations research model to an organisation.</li> <li>Understand operations research methodologies used in an organisation.</li> <li>Understand the characteristics of different types of decision-making environments and the appropriate decision making approaches and tools to be used in each type.</li> <li>Examine the concepts to solve various problems practically</li> </ol> |
| 2      | Project Work      | Project Work       | <ol style="list-style-type: none"> <li>Apply the fundamental aspects associated with the project.</li> <li>Evaluate the fundamental aspects associated with the project.</li> <li>Understand the topic selected fully and to use it for practical purposes.</li> </ol>   |



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|   |                       |                                |  |
|---|-----------------------|--------------------------------|--|
|   |                       |                                | 4. Analyse fully the data received and collected through primary and secondary methods of data collection  |
| 3 | Elective Courses (EC) | International Finance          | <ol style="list-style-type: none"><li>1. Apply basic knowledge of how international financial markets work.</li><li>2. Evaluate the foreign currency and derivatives.</li><li>3. Understand the fundamental aspects of various issues associated with International Finance.</li><li>4. Analyse and make decisions relating to foreign currency</li></ol>  |
| 4 | Elective Courses (EC) | Project Management             | <ol style="list-style-type: none"><li>1. Focused on project success as defined by project stakeholders.</li><li>2. Evaluate the criteria for project selection on the basis of a feasibility report.</li><li>3. Understand comprehensive overview of Project Management as a separate area of Management</li><li>4. Examine the fundamental aspects of various issues associated with Project Management</li></ol>                       |
| 5 | Elective Courses (EC) | Innovative Financial Services  | <ol style="list-style-type: none"><li>1. Develop the knowledge of financial services available in the economy and its impact.</li><li>2. Evaluate the comprehensive overview of emerging financial services in the light of globalisation.</li><li>3. Understand Basic concept, functions, process, techniques of financial services</li><li>4. Analyse awareness of the role, functions and functioning of financial services</li></ol> |
| 6 | Elective Courses (EC) | Strategic Financial Management | <ol style="list-style-type: none"><li>1. Apply tools and techniques to the planning and allocating of resources.</li><li>2. Evaluate the risks to strategy from inadequate resources,</li><li>3. Examine the knowledge about short term finance and Banking norms on NPAs.</li><li>4. Understand the concept of corporate governance and corporate restructuring like merger, acquisition , takeover etc.</li></ol>                      |
| 7 | Elective Courses (EC) | HRM in Global Perspective      | <ol style="list-style-type: none"><li>1. Creates understanding of virtual Organisation.</li><li>2. Analyse HRM Perspective Jioes in Training &amp; Development.</li><li>3. Examine the overview of International HRM.</li></ol>  |



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|    |                       |                                  |  |
|----|-----------------------|----------------------------------|--|
|    |                       |                                  | 4. Creates understanding of concept- PCNs(Parent Country Nationals)TCNs(Third Country Nationals) and HCNs (Host Country Nationals)   |
| 8  | Elective Courses (EC) | Workforce Diversity              | <ol style="list-style-type: none"><li>1. Apply the strategies to manage diversity.</li><li>2. Evaluate the issues and recent trend in workforce diversity.</li><li>3. Examine the nature, types, advantages and limitation of workforce diversity.</li><li>4. Examine the steps in Diversity and Recruitment, Supervision, Training, Diversity &amp; Compensation, Performance Management, and Work life Balance</li></ol>   |
| 9  | Elective Courses (EC) | Organizational Development       | <ol style="list-style-type: none"><li>1. Apply Ethical Issues in Organisational Development.</li><li>2. Evaluate the Issues and Challenges of Organisational Development while undergoing Changes of businesses.</li><li>3. Understand the concept of Organisational Development and its Relevance in an organisation.</li><li>4. Analyse organisational contexts and cultures in order to develop problem- solving approaches that are responsive to current dynamics and reflect new possibilities for the future.</li></ol> |
| 10 | Elective Courses (EC) | HRM in Service Sector Management | <ol style="list-style-type: none"><li>1. Evaluate how to manage effectively human resources in service sector business.</li><li>2. Demonstrate Problem Solving Skills.</li><li>3. Able to understand the concept and growing importance of HRM in service sector.</li><li>4. Understand the ways of managing human resources in service sector.</li></ol>  |
| 11 | Elective Courses (EC) | Brand Management                 | <ol style="list-style-type: none"><li>1. Develop different ways of measuring brand equity and examine how to make a brand survive / sustain in the global markets .</li><li>2. Evaluate importance of brand equity and various factors/sources contributing to raising this equity.</li><li>3. Develop the process brand management and help them in identifying factors responsible for success/failure of a brand and to comprehend the process of how to build, sustain and grow brands.</li></ol>                          |



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|    |                       |                               |   |
|----|-----------------------|-------------------------------|---|
|    |                       |                               | 4. Examine the basics and significance of branding and brand management and explain the criticality of effective brand management in the current business environment   |
| 12 | Elective Courses (EC) | Media Planning and Management | <ol style="list-style-type: none"><li>1. Demonstrate the skills needed to develop ideas and make decisions based on ethics, proper research, analysis, and critical thinking.</li><li>2. Able to solve marketing problems through understanding how the media operates from the perspective of the advertiser, the agency and the medium itself.</li><li>3. Understand how products can be classified, and the nature of the product line and product mix.</li><li>4. Develop a sense of judgment when evaluating media with the help of different media measurement metrics and media buys</li></ol> |
| 13 | Elective Courses (EC) | International Marketing       | <ol style="list-style-type: none"><li>1. Apply the marketing principles that together constitute the field of study.</li><li>2. Evaluate the International Marketing Mix decisions and recent developments in Global Market.</li><li>3. Examine the steps and processes involved in planning the market entry strategy of a firm into a foreign market .</li><li>4. Examine the dynamics of the International Marketing Environment.</li></ol>  |
| 14 | Elective Courses (EC) | Retail Management             | <ol style="list-style-type: none"><li>1. Apply knowledge of all functional areas of retailing and essential principles of retailing.</li><li>2. Able to understand retail management terminology.</li><li>3. Develop a sense of legal and ethical aspects of retail management.</li><li>4. Demonstrate the skills needed to develop ideas and make decisions based on ethics, proper research, analysis, and critical thinking.</li></ol>   |



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## PROGRAMME SPECIFIC OUTCOMES (PSO)

### Bachelor of Information Technology (B.Sc.IT)

- **PSO 1:** Develop and analyze quality computer applications by applying knowledge of software engineering, algorithms, programming, databases, mathematical models, Artificial Intelligence and networking.
- **PSO 2:** An ability to use current techniques, skills and tools for programming practically.
- **PSO 3:** Capability of the students to apply design and development principles in the construction of software systems.
- **PSO 4:** Ability to provide socially acceptable technical solutions in the domains of Information Security, Internet of Things and Embedded System, Infrastructure Services as specializations.

## COURSE OUTCOME (CO)

### Bachelor of Information Technology (B.Sc.IT)

### SEMESTER I

| Sr. No | Course Component | Course                         | Course Outcomes   |
|--------|------------------|--------------------------------|---|
| 1      | Core Subject     | Programming Principles with C  | <ol style="list-style-type: none"><li>1. To examine basic functional idioms into imperative ones.</li><li>2. To design simple loops, using invariants to explain why they work correctly.</li><li>3. To design simple Data structures</li><li>4. To create and use subordinates and modules to struct more complex programs.</li></ol>  |
| 2      | Core Subject     | Digital Logic and Applications | <ol style="list-style-type: none"><li>1. Understanding the different types of codes and number systems which are used in digital communication and computer systems.</li><li>2. Learn to design different types with and without memory elements.</li><li>3. Learn and create digital electronic circuits for particular operations.</li><li>4. To examine digital electronic circuit within the realm of economic, performance, efficiency, user friendly and environmental.</li></ol> |



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|   |                                  |   |   |
|---|----------------------------------|---|---|
| 3 | Core Subject                     | Computational Logic and Discrete Structures | <ol style="list-style-type: none"> <li>1. Learn and gain knowledge about Probability.</li> <li>2. Summarize the knowledge of the Permutations, Combination</li> <li>3. To learn about Relations, Graphs and Functions so that I can implement the logic in building algorithms.</li> <li>4. Apply the knowledge of Probability to different domains and obtain the results.</li> </ol>  |
| 4 | Core Subject                     | Fundamentals of Database Management Systems | <ol style="list-style-type: none"> <li>1. Define and describe the fundamental elements of relational database management system.</li> <li>2. To relate the basic concepts of relational data model, entity-relationship model, relational database design, relational algebra and SQL.</li> <li>3. Design ER-models to represent simple database application scenarios.</li> <li>4. Understand basic database storage structures and access techniques: file and page organizations, indexing methods and hashing.</li> </ol> |
| 5 | Ability Enhancement Skill Course | Technical Communication Skills              | <ol style="list-style-type: none"> <li>1. Develop and expand writing skills through controlled and Guided activity.</li> <li>2. Observe and communicate effectively in non-verbal way, draft and write effective letters.</li> <li>3. To develop coherence, cohesion and competence in oral discourse through intelligible pronunciation.</li> <li>4. Identify common errors in communication skill and rectify them</li> </ol>   |

### SEMESTER II

| Sr. No | Course Component | Course  | Course Outcomes   |
|--------|------------------|---|---|
| 1      | Core Subject     | Object Oriented Programming with C++                | <ol style="list-style-type: none"> <li>1. To Examine the concepts of object-oriented programming and the difference between top-down and bottom-up approach.</li> <li>2. To Know the object-oriented programming approach in connection with C++.</li> <li>3. To Identify the dynamic memory management techniques using pointers, constructors, destructors, etc.</li> <li>4. Demonstrate &amp; Analyze the use of various OOPs concepts with the help of programs.</li> </ol> |
| 2      | Core Subject     | Fundamentals of Microprocessor and Microcontrollers | <ol style="list-style-type: none"> <li>1. To Obtain basics of the processors.</li> </ol>  |



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|   |                                  |                              |   |
|---|----------------------------------|------------------------------|---|
|   |                                  |                              | <ol style="list-style-type: none"><li>2. To Familiarize with assembly level language programming.</li><li>3. To Learn &amp; Understand the Architecture &amp; Memory management.</li><li>4. To Analyze and create novel products and solutions for the real time problems Communication protocols.</li></ol>  |
| 3 | Core Subject                     | Numerical Methods            | <ol style="list-style-type: none"><li>1. To Examine &amp; Learn the derived numerical methods for various mathematical operations and tasks.</li><li>2. To evaluate &amp; know the interpolation, differentiation, integration, the solution of linear and nonlinear equations, and the solution of differential equations.</li><li>3. To Analyze and evaluate the accuracy of common numerical methods.</li><li>4. To know the Various methods taught to get the meaningful insight of data i.e., Bisection method, RegulaFalsi method, Newton Raphson method and many more.</li></ol> |
| 4 | Core Subject                     | Web Applications Development | <ol style="list-style-type: none"><li>1. Understand the meaning of the basic terminologies of web technology and explore, use the HTML5 concepts and basic requirements of web design.</li><li>2. To Examine &amp; Learn the use of Page layout, Navigation, Tables, Forms and Media features of HTML5.</li><li>3. To understand and use Cascading Style sheets for beautifying the web pages.</li><li>4. To identify, use the Java Script for validation of user forms in web pages and basic terminologies of PHP.</li></ol>  |
| 5 | Ability Enhancement Skill Course | Green IT                     | <ol style="list-style-type: none"><li>1. Obtain the fundamentals of green computing and its IT strategies.</li><li>2. Learn about green assets, modeling and information systems</li><li>3. Acquire knowledge on grid framework</li><li>4. Applying the rules and techniques for case studies</li></ol>   |



  
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### SEMESTER III

| Sr. No | Course Component         | Course                     | Course Outcomes  |
|--------|--------------------------|----------------------------|--|
| 1      | Skill Enhancement Course | Python Programming         | <ol style="list-style-type: none"><li>To understand why Python is a useful scripting language for developers.</li><li>To learn how to design and program Python applications.</li><li>Analyse and Experiment to use lists, tuples, and dictionaries in Python programs.</li><li>Applying indexing and slicing to access data in Python programs.</li></ol>   |
| 2      | Core Subject             | Database Management System | <ol style="list-style-type: none"><li>To Learn &amp; Understand database management systems, with an emphasis on how to organize, maintain and retrieve, efficiently, and effectively information from a DBMS.</li><li>Evaluate the fundamental elements of relational database management systems.</li><li>To learn basic concepts of relational data model, entity-relationship model, relational database design, relational algebra and SQL.</li><li>In- depth knowledge of design ER-models to represent simple database application scenarios and convert the ER-model to relational tables, populate relational databases and formulate SQL queries on data</li></ol> |
| 3      | Core Subject             | Computer Networks          | <ol style="list-style-type: none"><li>Describe the general principles of data communication</li><li>Examine how computer networks are organized with the concept of layered approach</li><li>Analyze the concepts in a give data link layer packet ,based on the layer concept.</li><li>Implement and describe how packet in the Internet are delivered</li></ol>  |
| 4      | Core Subject             | Data Structure             | <ol style="list-style-type: none"><li>To learn the concept of Dynamic memory management, data types, algorithms, Big O notation.</li><li>To learn basic data structures such as arrays, linked lists, stacks and queues.</li><li>To learn the hash function and concepts of collision and its resolution methods.</li><li>Applying Algorithms for solving problems like sorting, searching, insertion and deletion of data.</li></ol>  |



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|---|--------------|---------------------|--|
| 5 | Core Subject | Applied Mathematics | <ol style="list-style-type: none"><li>1. Solve problems in the engineering domain related to Linear Algebra using matrices and complex numbers.</li><li>2. Analyzing and solving engineering problems using Laplace Series.</li><li>3. Solving engineering problems using Fourier Series.</li><li>4. Solve engineering problems using Complex Integration.</li></ol> |
|---|--------------|---------------------|--|

## SEMESTER IV

| Sr. No | Course Component         | Course                                   | Course Outcomes   |
|--------|--------------------------|--|---|
| 1      | Skill Enhancement Course | Core Java                                | <ol style="list-style-type: none"><li>1. To understand the use of the syntax and semantics of java programming language and basic concepts of OOP.</li><li>2. Analyzing the experiment to use programs using the concepts of inheritance, polymorphism, interfaces and packages.</li><li>3. Applying the concepts of Multithreading and Exception handling to develop efficient and error free codes.</li><li>4. Build design event driven GUI and web related applications which mimic the real-world scenarios.</li></ol> |
| 2      | Core Subject             | Computer Graphics and Animation          | <ol style="list-style-type: none"><li>1. Understand the basics of computer graphics, different graphics systems and applications of computer graphics.</li><li>2. Examine various algorithms for scan conversion and filling of basic objects and their comparative analysis.</li><li>3. Extract scene with different clipping methods and its transformation to graphics display device.</li><li>4. Identify projections and visible surface detection techniques for display of 3D scenes on 2D screen.</li></ol>         |
| 3      | Core Subject             | Computer Oriented Statistical Techniques | <ol style="list-style-type: none"><li>1. To understand and implement various concepts of numerical analysis and statistics to solve real life problems.</li><li>2. Learn Statistical Data Frequency distribution.</li><li>3. Analysis of Frequency curve and histogram; Measure of central tendency and dispersion.</li></ol>   |



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|   |              |                                  | 4. Evaluate and identify on sampling Data for mean proportion can be solved so that to find error in the data set given.   |
| 4 | Core Subject | Introduction to Embedded Systems | <ol style="list-style-type: none"><li>1. To learn the concept of embedded system, microcontroller, different components of microcontroller and their interactions.</li><li>2. To build program microcontrollers to perform various tasks.</li><li>3. Understand the key concepts of embedded systems such as I/O, timers.</li><li>4. Analyze interrupts and interaction with peripheral devices.</li></ol>   |
| 5 | Core Subject | Software Engineering             | <ol style="list-style-type: none"><li>1. Understand the importance of applicable solutions in one or more application domains using software engineering approaches that integrate ethical, social, legal and economic concerns.</li><li>2. Gain detailed understanding on quality software products by possessing the leadership skills as an individual or contributing to the team development and demonstrating effective and modern working strategies by applying both communication and negotiation management skills.</li><li>3. Accumulate and apply the knowledge on software models, techniques and technologies to bring out innovative and novelistic solutions for the growth of the society in all aspects and evolving into their continuous professional development.</li><li>4. Obtaining the knowledge thoroughly on design and development phases.</li></ol> |

### SEMESTER V

| Sr. No | Course Component         | Course                      | Course Outcomes  |
|--------|--------------------------|-----------------------------|--|
| 1      | Skill Enhancement Course | Software Project Management | <ol style="list-style-type: none"><li>1. Understand project characteristics and various stages of a project.</li><li>2. Understand the conceptual clarity about project organization and feasibility analyzes Market, Technical, Financial and Economic.</li><li>3. Analyze the learning and understand techniques for Project planning, scheduling and Execution Control.</li><li>4. Apply the risk management plan and analyze</li></ol> |



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|   |                              |                             | the role of stakeholders.  |
| 2 | Skill Enhancement Course     | Internet of Things          | <ol style="list-style-type: none"><li>1. Understand the definition and significance of the Internet of Things</li><li>2. Discuss the architecture, operation, and business benefits of an IoT solution</li><li>3. Examine the potential business opportunities that IoT can uncover</li><li>4. Explore the relationship between IoT, cloud computing, and big data</li></ol>   |
| 3 | Skill Enhancement Course     | Advanced Web Programming    | <ol style="list-style-type: none"><li>1. To gain Knowledge of the .NET technologies framework.</li><li>2. To understand and implement various controls for Creating a web Application.</li><li>3. Understand the security aspects of web Application.</li><li>4. To Learn working with XML and ASP.NET AJAX</li></ol>  |
| 4 | Discipline Specific Elective | Linux System Administration | <ol style="list-style-type: none"><li>1. To understand Linux Distributions, Managing Software.</li><li>2. To give students information about basic network Configuration and System and network security.</li><li>3. To understand DNS , FTP , SMTP, Network authentication , Kerberos , OpenLDAP Server</li><li>4. To get interaction with Network File System , Distributed File Systems, Network Information Service , Lightweight Directory Access Protocol , Dynamic Host Configuration Protocol.</li></ol>                     |
| 5 | Discipline Specific Elective | Enterprise Java             | <ol style="list-style-type: none"><li>1. To learn and understand Java Enterprise Edition (JEE) architectural components along with various session management techniques and Servlet creation.</li><li>2. To build the design web-based applications using Java Server Page (JSP) and Struts framework.</li><li>3. To examine Enterprise JavaBean (EJB) architectural components and different types of EJBs.</li><li>4. To Build software components using EJB to implement business logic for an enterprise application.</li></ol> |



  
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## SEMESTER VI

| Sr. No | Course Component             | Course                     | Course Outcomes   |
|--------|------------------------------|----------------------------|---|
| 1      | Skill Enhancement Course     | Software Quality Assurance | <ol style="list-style-type: none"><li>1. Accumulate and provide an insight of quality management processes.</li><li>2. Ability to understand the Difference between the various activities of quality assurance, quality planning and quality control.</li><li>3. Acquire knowledge on standards in the quality management process and their impact on the final product.</li><li>4. Obtain basic fundamentals software testing strategies.</li></ol>   |
| 2      | Skill Enhancement Course     | Security In Computing      | <ol style="list-style-type: none"><li>1. Analyze the learning and understand the factors driving the need for network security</li><li>2. Identify and classify particular examples of attacks</li><li>3. To build the define the terms vulnerability, threat and attack</li><li>4. Obtaining the knowledge of physical points of vulnerability in simple networks.</li></ol>   |
| 3      | Skill Enhancement Course     | Business Intelligence      | <ol style="list-style-type: none"><li>1. To learn the concepts and components of Business Intelligence (BI).</li><li>2. To critically evaluate use of BI for supporting decision making in an organization.</li><li>3. To understand and use the technologies and tools that make up BI (e.g. Data warehousing, Data reporting and use of Online analytical processing (OLAP))</li><li>4. To build and design the technological architecture that underpins BI systems.</li></ol>   |
| 4      | Discipline Specific Elective | IT Service Management      | <ol style="list-style-type: none"><li>1. Describe the key principles of IT service management.</li><li>2. Outline the important processes of IT service management.</li><li>3. Demonstrate the comprehension of a framework of IT service management.</li><li>4. Analyze an IT service organization in terms of processes and functions and to discuss the roles involved in IT service management.</li><li>5. Practice IT asset and service cataloging also to draft a component in an IT service management agreement</li></ol> |



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| 5 | Discipline Specific Elective | Principle of geographic information System | <ol style="list-style-type: none"><li>1. Demonstrate proficiency in the use of GIS tools to create maps that are fit-for-purpose and effectively convey the information they are intended to.</li><li>2. Effectively communicate and present project results in oral, written, and graphic forms.</li><li>3. Demonstrate confidence in undertaking new (unfamiliar) analysis using GIS, troubleshoot problems in GIS, and seek help from software/website help menus and the GIS community to solve problems.</li><li>4. Apply mathematical concepts, including statistical methods, to data to be used in geospatial analysis.</li><li>5. Gather and process original data using a Global Positioning System (GPS) or other Global Navigation Satellite Systems (GNSS).</li></ol> |
| 6 | Skill Enhancement Course     | Project Work                               | <ol style="list-style-type: none"><li>1. To understand the building of real time projects. the actual work environment, real time problems and problem-solving techniques of real time projects.</li><li>2. To build and develop deeper knowledge, understanding, capabilities and attitudes in the context of the programme of study.</li><li>3. Evaluate different types of allocations on different platforms in different areas.</li><li>4. To learn and create documentation using word processing software.</li></ol>  |



  
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## PROGRAMME SPECIFIC OUTCOMES (PSO)

### Bachelor in Accounting and Finance (BAF)

- **PSO 1:** It enables students to understand fundamentals of accounting, taxation, costing, financial management, auditing, management accounting etc.
- **PSO 2:** It motivates students to do research work in the field of finance.
- **PSO 3:** It motivates students to pursue higher studies like Chartered Accountancy, Cost Accountancy, MBA in Finance, Company Secretary, M.Com in Accountancy, ACCA (Association of Chartered Certified Accountants) etc.
- **PSO 4:** It enhances students communication skills, social skills, computer skills as well. This programme also updates students with business & corporate laws and business economics.

## COURSE OUTCOMES (PSO)

### Bachelor in Accounting and Finance (BAF)

#### SEMESTER I

| Sr. No | Course Component                | Course                   | Course Outcomes   |
|--------|---------------------------------|--------------------------|---|
| 1      | Elective Courses (EC)           | Financial Accounting - I | <ol style="list-style-type: none"><li>1. Develop fundamental knowledge about the fields of finance, accountancy, audit, taxation, law, technology and innovative practices by adopting learner centric pedagogy.</li><li>2. Motivate students to pursue higher studies such as chartered accountancy, cost accountancy, Bachelor of Accounts &amp; Finance (B.A.F) (Programme) chartered financial analyst, Business administration and company Secretaryship</li><li>3. Nurture students' ability to work as consultants.</li><li>4. Arouse students' interest in research</li></ol> |
| 2      | Skill Enhancement Courses (SEC) | Foundation Course        | <ol style="list-style-type: none"><li>1. Identify the nature, function &amp; scope of business communication.</li><li>2. Implement skills of effective verbal and non- verbal communication.</li><li>3. Apply written communication used in the business world</li><li>4. Adapt to changing culture and impact of modern technology on business communication.</li></ol>  |



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|---|--|--------------------------|---|
| 3 | Ability Enhancement Compulsory Course (AECC) | Business Communication-I | <ol style="list-style-type: none"><li>1. Identify the nature, function &amp; scope of business communication.</li><li>2. Implement skills of effective verbal and non-verbal communication.</li><li>3. Apply written communication used in the business world.</li><li>4. Adapt to changing culture and impact of modern technology on business communication.</li></ol>  |
| 4 | Elective Courses (EC)                        | Cost Accounting (CA-I)   | <ol style="list-style-type: none"><li>1. Creates understanding the concepts of costing and accounting procedures.</li><li>2. Generate practical adjustments in production with elements of cost.</li><li>3. Define practical approach towards cost structure of labours. Understanding formulas for calculation of cost of labours.</li><li>4. Review practical approach towards cost structure of labours. Understanding formulas for calculation of cost of labours. Study practical approach towards overheads in production Study per overhead cost and apportion of elements used in production.</li></ol> |
| 5 | Core Courses (CC)                            | Business Economics       | <ol style="list-style-type: none"><li>1. Analyse Business Economics with respect to demand for various goods and services and evaluate demand forecasting for them.</li><li>2. Evaluate supply and production decisions and understand business cost of production Students will be able to critically.</li><li>3. Analyse Perfect and Imperfect market conditions.</li><li>4. Able to distinguish between different Pricing Practices</li></ol>  |
| 6 | Core Courses (CC)                            | Business Environment     | <ol style="list-style-type: none"><li>1. Outline Business Objectives, Dynamics of Business and its Environment, Types of Business Environment.</li><li>2. Examine Environmental Analysis using PESTEL Analysis &amp; SWOT Analysis.</li><li>3. Develop Ethical Dilemmas, Corporate Culture and Ethical Climate.</li><li>4. Develop Ethical Dilemmas, Corporate Culture and Ethical Climate.</li></ol>   |
| 7 | Elective Courses (EC)                        | Financial Management-I   | <ol style="list-style-type: none"><li>1. Creates understanding of the concept of financial management. Understand different concept of valuation. Calculate various leverages on their own. Easily identify various sources of finance. Calculate cost of capital of the various firms.</li><li>2. Calculate various leverages on their own. Easily identify various sources of finance. Calculate cost</li></ol>   |



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|  |  |  | <p>of capital of the various firms.</p> <p>3. Easily identify various sources of finance.<br/>Calculate cost of capital of the various firms.</p> <p>4. Calculate cost of capital of the various firm.</p> |
|--|--|--|--|

## SEMESTER II

| Sr. No | Course Component                             | Course                        | Course Outcomes  |
|--------|--|-------------------------------|--|
| 1      | Ability Enhancement Compulsory Course (AECC) | Business Communication -II    | <p>1. Focus on the set of skills required to be successful in a Group Discussion.</p> <p>2. Understand the structure and styles of Interviews</p> <p>3. Examine the concept of a conference as a means of internal and external communication.</p> <p>1. Examine the scope of public relations in the context of the modern-day world.</p>   |
| 2      | Skill Enhancement Courses (SEC)              | Foundation Course-II          | <p>1. Apply the concept of human and fundamental rights.</p> <p>2. Apply the concept of human and fundamental rights</p> <p>3. Comprehend and address the concepts related to stress, conflict, aggression and violence.</p> <p>4. Develop the mechanisms for managing different types of stress, conflict, aggression</p>   |
| 3      | Elective Courses (EC)                        | Auditing                      | <p>1. Classify different concepts of auditing, types of frauds and errors in auditing</p> <p>1. Apply the knowledge gained on audit planning and documentations and practice in real life</p> <p>2. Critically evaluate the knowledge gained on various auditing techniques</p> <p>3. Examine their role in vouching and verification</p>  |
| 4      | Elective Courses (EC)                        | Innovative Financial Services | <p>1. Examine the scenario of the financial service sector in India Plan various services offered, the procedures, criteria, eligibility, need of availing such services</p> <p>2. Evaluate the issue management &amp; securitization process, the background of the stock market operations.</p> <p>3. Creates understanding of Credit Rating Agencies &amp; consumer finance</p> |
| 5      | Elective Courses (EC)                        | Financial Accounting - II     | <p>1. Use basic principles of insurance and able to calculate fire insurance claim regarding goods lost by fire</p> <p>2. Compare difference in between single-entry system and double entry system and practically</p>  |



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|   |                   |                      | <p>able to linking up, to prepare final accounts from incomplete record.</p> <ol style="list-style-type: none"> <li>Creates understanding transactions between Principal/ Manufacture and agent, able to apply consignment accounting regarding these transactions.</li> <li>Enhance application of Branch Accounting for small branches by Debtor system and for big branches by stock and debtors' system</li> </ol>   |
| 6 | Core Courses (CC) | Business law         | <ol style="list-style-type: none"> <li>Write legality behind of making contract</li> <li>Evaluate legality behind of making contract of sale and agreement to sale.</li> <li>Carry out legality behind of negotiable instruments of promissory notes, bills of exchange, cheque</li> <li>Compare legality and rights of consumers</li> </ol>   |
| 7 | Core Courses (CC) | Business Mathematics | <ol style="list-style-type: none"> <li>Demonstrate an understanding of the foundations and history of mathematics.</li> <li>Evaluate computations in higher mathematics.</li> <li>Use and understand middle-level proofs and understand basic of Profit and loss, interest and annuity concepts.</li> <li>Develop and maintain problem-solving skills. Able to solve the problems based on ratio, proportion and percentage. students able to understand the practical aspects of shares and mutual fund.</li> </ol> |

## SEMESTER III

| Sr. No | Course Component                             | Course                                    | Course Outcomes   |
|--------|--|---|---|
| 1      | Ability Enhancement Compulsory Course (AECC) | Information Technology in Accountancy - I | <ol style="list-style-type: none"> <li>Examine types of software and hardware.</li> <li>Execute different commands of Ms word, Ms Excel and Ms PowerPoint</li> <li>Evaluate the implementation of different protocols used for sending and receiving an email</li> <li>Outline the importance of electronic data interchange and e-commerce.</li> </ol> |
| 2      | Elective Courses (EC)                        | Financial Accounting-III (FA-III)         | <ol style="list-style-type: none"> <li>Check structure of Final Accounts of Partnership Firms with Admission, Retirement, Death of partner.</li> <li>Compare actual implementation of dissolution of partnership firm with the technique of Piecemeal Distribution of Cash.</li> </ol>  |



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|   |                                 |  | <ol style="list-style-type: none"><li>3) Use inter settlement of various transactions during the conversion of partnership firm into Joint Stock Co.</li><li>4) Enhance transactions and procedure of foreign currency translation in to Indian Rupees.</li></ol>  |
| 3 | Skill Enhancement Courses (SEC) | Foundation course- III                                     | <ol style="list-style-type: none"><li>1) Aware about legal and constitutional Rights and violation Redressal mechanisms of SC, ST, Women, Children Disabilities, Minorities and elderly population</li><li>2) Categorise the concept of Disaster and general effects, dealing with disasters and human Rights related with rehabilitation.</li><li>3) Update with development of science and role in everyday life</li><li>4) Evaluate the Characteristics of Negotiable Instrument, classification of Negotiable Instruments and it's Miscellaneous Provisions.</li></ol>   |
| 4 | Elective Courses (EC)           | Cost Accounting-II (CA-II)                                 | <ol style="list-style-type: none"><li>1) Apply calculation of pricing of large size contract by contract costing and to solve practical problems.</li><li>2) Find reasons of distinction between financial accounting and cost accounting and to solve practical problems.</li><li>3) Apply technique of determination of price at the time of running manufacturing process by process costing in practical manner</li><li>4) Carry out cost sheet problems and acquired skill of application of cost sheet. One of the important techniques to determine prices.</li></ol> |
| 5 | Core Courses (CC)               | Business Law (Business Regulatory Framework) – II (Law-II) | <ol style="list-style-type: none"><li>1) Understand rights and liabilities of partners, Outsiders, Incorporation and dissolution of partnership firm</li><li>2) Creates understanding of nature of LLP, merits of LLP and process of winding up of LLP</li><li>3) Execute provisions of Health safety and welfare measures for workers and its inspection.</li><li>4) Demonstrate an understanding of the Legal environment of business</li></ol>  |
| 6 | Elective Courses (EC)           | Taxation-II (Direct Taxes-I) (Tax-II)                      | <ol style="list-style-type: none"><li>1) Recognise technical words associated with fundamental Concepts and direct taxation</li></ol>  |



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|   |                   |                                | <ol style="list-style-type: none"> <li>2) Examine residential status of an assessee and compute the taxable income of assessee with different</li> <li>3) Practically apply various benefits/ deductions under Chap VI-A of the Income tax act, 1961 which are to be reduced from the gross total income of the assessee.</li> <li>4) Practically compute total income of assess.</li> </ol>   |
| 7 | Core Courses (CC) | Business Economics-II (Eco-II) | <ol style="list-style-type: none"> <li>1) Aware of National Income, Trade cycles and other Macro economic concepts</li> <li>2) Analyse money, prices and inflation situation in the country</li> <li>3) Critically evaluate Public Finance with reference to sources of Public Revenue, Government's Expenditure on various goods and services and Public debt</li> <li>4) Analyse Fiscal management and Financial administration of the Government</li> </ol> |

## SEMESTER IV

| Sr. No | Course Component                             | Course   | Course Outcomes   |
|--------|--|--|---|
| 1      | Ability Enhancement Compulsory Course (AECC) | Information Technology In Accountancy - II         | <ol style="list-style-type: none"> <li>1. Outline the meaning and classification of Business processes.</li> <li>2. Demonstrate the computerised accounting systems Software</li> <li>3. Examine the MIS reports for faster decision- making.</li> <li>4. Evaluate the effectiveness of Internal audits in a computer-based environment.</li> </ol> |
| 2      | Core Courses (CC)                            | Business Law (Company Law) – III                   | <ol style="list-style-type: none"> <li>1. Creates understanding of the legal framework</li> <li>2. Clarify the incorporation of companies, public offer, private placement, share capital and debentures</li> <li>3. Aware about Public offer and private placement</li> <li>4. Recognise Share capital and Debenture</li> </ol>                    |
| 3      | Elective Courses (EC)                        | Financial Accounting (Special Accounting Areas) IV | <ol style="list-style-type: none"> <li>1. Apply to formats of Company Final Accounts as per Indian Company's Act, 2013 in practical manner with notes to accounts.</li> <li>2. Use provisions regarding redemption of preference shares as per Company's Act, 2013 and applying practically to solve practical problems.</li> </ol>                 |



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|   |                                 |  |  |
|---|---------------------------------|--|--|
|   |                                 |  | <ol style="list-style-type: none"><li>3. Define various types of redemption of debentures and preference share also they are able to understand provisions regarding redemption of debentures.</li><li>4. Classify appropriate basis for allocation regarding Profit Prior to Incorporation and applying when, to solve practical problem</li></ol>  |
| 4 | Elective Courses (EC)           | Taxation – III (Direct Taxes II)             | <ol style="list-style-type: none"><li>1. Examine the need for introduction of clubbing in Income tax and compute the different clubbing provisions.</li><li>2. Compute provisions of set off &amp; carry forward of losses from different heads of income</li><li>3. Compute total income of partnership firms and also the maximum remuneration payable to the Partners.</li><li>4. Compute advance tax, TDS and levy of interest under different sections of the Income Tax Act.</li></ol>   |
| 5 | Skill Enhancement Courses (SEC) | Foundation Course-IV                         | <ol style="list-style-type: none"><li>1. Acquire knowledge on Rights of consumers rights and protection Act, RTI, PIL And citizens Charters, public service Guarantee Acts.</li><li>2. Creates understands the various approaches towards ecology and environmental principles.</li><li>3. Acquainted with the latest development in technologies and its use for the betterment of the human race. They would also be aware of the issues relating to control, access and misuse of technology</li><li>4. Evaluate the requirements of different competitive exams conducted in India. Learn and implement soft skills like Motivation, Goal Setting, Time management, and few writing skills.</li></ol>  |
| 6 | Core Courses (CC)               | Research Methodology in Accounting & Finance | <ol style="list-style-type: none"><li>1. Outline the importance of research in Accounting and Finance and analyze Types of research - Basic, Applied, Descriptive, Analytical and Empirical Research &amp; Formulate of research problem</li><li>2. Analyse Research Design in Accounting and Finance and develop Hypothesis by Formulation of Types of Different Research designs</li><li>3. Investigate to perform Data Collection using Primary Data &amp; Secondary Data and narrate the Factors affecting the choice of method of data collection.</li><li>4. Use Data Presentation using Stages in Data Processing: Editing, Coding, Classification, Tabulation, Graphic Presentation and develop statistical Analysis using Measures of Central Tendency, Measures of Dispersion, Correlation Analysis and Regression Analysis.</li></ol> |



  
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|   |                       |                                |  |
|---|-----------------------|--------------------------------|--|
| 7 | Elective Courses (EC) | Management Accounting-I (MA-I) | <ol style="list-style-type: none"><li>1. Classify management accounting framework and tools</li><li>2. Apply the knowledge gained on analysis and interpretation of accounts and practices in real life.</li><li>3. Critically evaluate the knowledge gained on ratio analysis viz (balance sheet , revenue statement, combined ratios)</li><li>4. Examine their role in cash flow analysis and working capital management</li></ol> |
|---|-----------------------|--------------------------------|--|

### SEMESTER V

| Sr. No | Course Component      | Course                  | Course Outcomes   |
|--------|-----------------------|-------------------------|---|
| 1      | Elective Courses (EC) | Financial Accounting -V | <ol style="list-style-type: none"><li>1. Analysis underwriting of shares &amp; debentures Introduction, Underwriting, Underwriting Commission Provision of Companies Act with respect to Payment of underwriting commission Underwriters, Sub-Underwriters, Brokers and Manager to issues Types of underwriting, Abatement Clause Marked, Unmarked and Firm- underwriting applications, Liability of the underwriters in respect of underwriting contract.</li><li>2. Create understanding of Buy Back of Shares Company Law / Legal provisions (including related restrictions, power, transfer to capital redemption reserve account and prohibitions). Compliance of conditions including sources, maximum limits and debt equity ratio. Cancellation of Shares Bought back(Excluding Buy Back of minority shareholding).</li><li>3. Evaluate AS – 14 - Amalgamation, Absorption &amp; External Reconstruction (excluding intercompany holdings) In the nature of merger and purchase with corresponding accounting treatments of pooling of interests and purchase method respectively. Meaning and Computation of purchase consideration. Problems based on purchase method.</li><li>4. Evaluation of Liquidation of Companies Meaning of liquidation or winding up Preferential payments Overriding preferential payments Preparation of statement of affairs, deficit / surplus account Liquidator's final statement of account.</li></ol> |



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|   |                       |                         |   |
|---|-----------------------|-------------------------|---|
| 5 | Elective Courses (EC) | Indirect Tax-I          | <ol style="list-style-type: none"><li>1. Examine the different concept and term used in the Goods and Services Tax (GST)</li><li>2. Explores the process of Registration, place and value of supply and computation of tax liability.</li><li>3. Examine the contents and format for various documents like tax invoice, bill of supply, debit note, credit note etc.</li><li>4. Examine whether or not a person must register under the GST law.</li></ol> |
| 6 | Elective Courses (EC) | Management Applications | <ol style="list-style-type: none"><li>1. Examine the nature, types, functions and process of marketing management</li><li>2. Defend and justify the various types of productivity and its measures</li><li>3. Outline the nature, functions, process and planning of HRM</li><li>4. Investigate the steps in financial management</li></ol>   |

### SEMESTER VI

| Sr. No | Course Component      | Course                    | Course Outcomes  |
|--------|-----------------------|---------------------------|--|
| 1      | Elective Courses (EC) | Cost Accounting-IV        | <ol style="list-style-type: none"><li>1. Use various types of budgets depending upon the types of activities.</li><li>2. Define the concepts of absorption costing, marginal costing, and cost volume and profit analysis.</li><li>3. Carry out decision like make or buy, appropriate sales mix on the basis of analytical costing methods</li><li>4. Find material, labour, sales and overhead variances.</li></ol>  |
| 2      | Elective Courses (EC) | Financial Management-III  | <ol style="list-style-type: none"><li>1. Recognize the Business Valuation and approaches of valuation.</li><li>2. Differentiate Mergers and Acquisitions</li><li>3. Compare Corporate Restructuring and Takeovers</li><li>4. Analyse Working Capital financing</li></ol>   |
| 3      | Core Courses (CC)     | Financial Accounting -VII | <ol style="list-style-type: none"><li>1. Classify Final Account for Electricity Company Final Accounts as per Double Account System</li><li>2. Classify Balance Sheet Contingency Reserve Disposal of Surplus (As per Electricity Rules): Norms regarding Disposal of Surplus Replacement of Assets Simple practical problems</li><li>3. Create understanding Mutual Fund Introduction, Historical Background SEBI Guidelines, Organisation, NAC Scheme, Types of Mutual Fund Schemes, , FOF Scheme, Load or No-Load</li></ol> |



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|   |                       |                            |  |
|---|-----------------------|----------------------------|--|
|   |                       |                            | <p>Scheme, Investment Valuation norms, Pricing of units, Contents of Balance sheet and revenue Account, Evaluation of mutual funds, Disposal of Investments, Recognition of Income, Accounting policies and entries.</p> <p>4. Acquire knowledge on Investment Accounting (w.r.t. Accounting Standard- 13) For shares (variable income bearing securities) For debentures/Preference. shares (fixed income bearing securities) Accounting for transactions of purchase and sale of investments with ex and cum interest prices and finding cost of investment sold and carrying cost as per weighted average method (Excl. brokerage). Columnar format for investment account.</p> |
| 4 | Elective Courses (EC) | Indian Economy (Ind Eco-I) | <ol style="list-style-type: none"><li>1. Analyse the Indian Agricultural sector with respect to various policies.</li><li>2. critically evaluate Industrial sector in India.</li><li>3. analyse India's Service sector and External sector</li><li>4. Insight of India's Money Market and Banking system.</li></ol>  |
| 5 | Elective Courses (EC) | Taxation-V (Tax-V)         | <ol style="list-style-type: none"><li>1. Practically use filing of returns, payment of taxes and refunds</li><li>2. Examine accounts, audits and assessment as for the company for GST.</li><li>3. Examine the foreign trade policy.</li><li>4. Examine the customs duty act in India.</li></ol>   |



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## PROGRAMME SPECIFIC OUTCOMES (PSO)

### Bachelor of Computer Science (B.Sc.(CS))

- **PSO 1:** Develop and analyse quality computer applications by applying knowledge of software engineering, algorithms, programming, databases, mathematical models, Artificial Intelligence and networking.
- **PSO 2:** An ability to use current techniques, skills and tools for programming practically.
- **PSO 3:** Capability of the students to apply design and development principles in the construction of software systems.
- **PSO 4:** Ability to provide socially acceptable technical solutions in the domains of Information Security, Internet of Things and Embedded System, Infrastructure Services as specializations.


## COURSE OUTCOME (CO)

### Bachelor of Computer Science (B.Sc.(CS))

#### SEMESTER I

| Sr. No | Course Component         | Course                                  | Course Outcomes   |
|--------|--------------------------|---|---|
| 1      | Core Subject             | Digital Systems & Architecture          | <ol style="list-style-type: none"><li>1. To learn about how computer systems work and underlying principles.</li><li>2. To understand the basics of digital electronics needed for computers</li><li>3. To understand the basics of instruction set architecture for reduced and complex instruction sets</li><li>4. To understand the basics of processor structure and operation and understand how data is transferred between the processor and I/O devices</li></ol> |
| 2      | Skill Enhancement Course | Introduction to Programming with Python | <ol style="list-style-type: none"><li>1. To understand why Python is a useful scripting language for developers.</li><li>2. To learn how to design and program Python applications.</li><li>3. Analyze and Experiment to use lists, tuples, and dictionaries in Python programs.</li><li>4. Applying indexing and slicing to access data in Python</li></ol>  |



  
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|   |                            |  |   |
|---|----------------------------|--|---|
| 4 | Core Subject               | Open Source Technologies                               | <ol style="list-style-type: none"><li>1. To Learn &amp; Understand difference between open-source software and commercial software.</li><li>2. Evaluate the fundamental elements of policies, licensing procedures and ethics of FOSS.</li><li>3. To learn basic concepts of open-source philosophy, methodology and ecosystem.</li><li>4. Awareness with Open-Source Technologies.</li></ol>   |
| 5 | Core Subject               | Discrete Mathematics                                   | <ol style="list-style-type: none"><li>1. Solve problems in the engineering domain related to theory of discrete objects, starting with relations and partially ordered sets.</li><li>2. Analyzing and solving recurrence relations, generating function and operations on them</li><li>3. Understanding of graphs and trees, which are widely used in software.</li><li>4. Solve engineering problems using automata theory and the corresponding formal languages.</li></ol> |
| 5 | Core Subject               | Descriptive Statistics and Introduction to Probability | <ol style="list-style-type: none"><li>1. Understand how to describe the data with available measures</li><li>2. Learn how to present the data with a suitable diagram</li><li>3. Apply probability in real time situations and identify randomness in experiments</li><li>4. Differentiate between types of random variables and its distributions</li><li>5. Study the standard distributions and its properties</li></ol>   |
| 6 | Ability Enhancement Course | Soft Skills Development                                | <ol style="list-style-type: none"><li>1. To know about various aspects of soft skills and learn ways to develop personality</li><li>2. Understand the importance and type of communication in personal and professional environment.</li><li>3. To provide insight into much needed technical and non-technical qualities in career planning.</li><li>4. Learn about Leadership, team building, decision making and stress management</li></ol>                               |
| 7 | Core course                | LINUX Operating System                                 | <ol style="list-style-type: none"><li>1. To learn use of various shell commands with regular expressions.</li><li>2. To set Linux Environment variables and learn setting file permissions to maintain Linux security implementation.</li><li>3. To learn various editors available in Linux OS.</li><li>4. To learn shell scripting.</li><li>5. To learn installation of compilers and programming using C and Python languages on Linux platform</li></ol>                  |



  
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## SEMESTER II

| Sr. No | Course Component         | Course                          | Course Outcomes  |
|--------|--------------------------|---------------------------------|--|
| 1      | Skill Enhancement Course | Introduction to OOPs using C++  | <ol style="list-style-type: none"><li>1. To know about how to writeable to write, compile and debug programs in C ++ language.</li><li>2. Understand how touse different data types in a computer program.</li><li>3. Understand the impotence of OOP approach over procedural language and how to model classes and relationships using UML.</li><li>4. Todesignprograms involving decision structures, loops and functions.</li><li>5. Explain the difference between call by value and call by reference</li></ol>  |
| 2      | Skill Enhancement Course | Advanced Python Programming     | <ol style="list-style-type: none"><li>1. To understand how to read/write to files using python.</li><li>2. To catch their own errors that happen during execution of programs.</li><li>3. An introduction to the concept of pattern matching.</li><li>4. To get familiar with the concepts of GUI controls and designing GUI applications.</li></ol>   |
| 3      | Core Subject             | Design & Analysis of Algorithms | <ol style="list-style-type: none"><li>1. To have a good working knowledge of the basic principles of algorithm design.</li><li>2. To give idea to students about the theoretical background of the basic data structures.</li><li>3. To familiarize the students with fundamental problem-solving strategies like searching, sorting, selection, recursion and help them to evaluate efficiencies of various algorithms.</li><li>4. To give knowledge of algorithm design paradigms and how they can be used to solve various real world problems.</li></ol> |
| 4      | Core Subject             | Calculus                        | <ol style="list-style-type: none"><li>1. Understanding of Mathematical concepts like limit, continuity, derivative, integration of functions.</li><li>2. Ability to appreciate real world applications which uses these concepts.</li><li>3. Skill to formulate a problem through Mathematical modeling and simulation.</li></ol>  |



  
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|   |                            |                                |  |
|---|----------------------------|--------------------------------|--|
| 5 | Ability Enhancement Course | E-Commerce & Digital Marketing | <ol style="list-style-type: none"><li>1. To understand increasing significance of E-Commerce and its applications in Business and Various Sectors.</li><li>2. To provide an insight on Digital Marketing activities on various Social Media platforms and its emerging significance in Business.</li><li>3. To understand Latest Trends and Practices in E-Commerce and Digital Marketing, along with its Challenges and Opportunities for an Organization.</li></ol>  |
| 6 | Core Subject               | Statistical Methods            | <ol style="list-style-type: none"><li>1. To make learner aware about basic probability axioms and rules and its application</li><li>2. To understand the concept of conditional probability and Independence of events.</li><li>3. To make learner familiar with discrete and continuous random variables as well as standard discrete and continuous distributions.</li><li>4. To learn computational skills to implement various statistical inferential approaches.</li><li>5. Calculate probability, conditional probability and independence. Apply the given discrete and continuous distributions whenever necessary.</li></ol> |



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### SEMESTER III

| Sr. No | Course Component         | Course                             | Course Outcomes  |
|--------|--------------------------|------------------------------------|--|
| 1      | Core Subject             | Principles of Operating Systems    | <ol style="list-style-type: none"><li>1. To learn basic concepts and structure of operating systems</li><li>2. To learn about process and synchronization in operating system level.</li><li>3. To learn CPU scheduling algorithms.</li><li>4. To learn Memory and File system management.</li><li>5. To get knowledge of to handle threads, processes, process synchronization.</li></ol>   |
| 2      | Core Subject             | Linear Algebra                     | <ol style="list-style-type: none"><li>1. To offer the learner the relevant Linear Algebra concepts through Computer Science applications.</li><li>2. To interpret existence and analyze the solution set of a system of linear equations.</li><li>3. To formulate, solve, apply, and interpret properties of linear systems.</li><li>4. To learn about the concept of linear independence of vectors over a field, and the dimension of a vector space.</li></ol>  |
| 3      | Core Subject             | Data Structures                    | <ol style="list-style-type: none"><li>1. To introduce data abstraction and data representation in memory.</li><li>2. To describe, design and use of elementary data structures such as stack, queue, linked list, tree and graph.</li><li>3. How and why different data structures are used for different types of problems.</li></ol>   |
| 4      | Core Subject             | Advanced Database Concepts         | <ol style="list-style-type: none"><li>1. To develop understanding of concepts and techniques for data management and learn about widely used systems for implementation and usage.</li><li>2. To develop understanding of Transaction management and crash recovery.</li><li>3. To develop concepts of programming concepts of database.</li><li>4. Learn about using PL/SQL for data management.</li><li>5. Understand concepts and implementations of transaction management and crash recovery.</li></ol> |
| 5      | Skill Enhancement Course | Java based Application Development | <ol style="list-style-type: none"><li>1. To provide insight into java based applications using OOP concepts.</li><li>2. To provide understanding of developing GUI based desktop applications in java.</li><li>3. To provide knowledge of web based applications through servlet and jsp.</li><li>4. To provide understanding and implementation of basic JSON</li></ol>   |



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|---|--------------------------|--------------------------|---|
| 6 | Skill Enhancement Course | Web Technologies         | <ol style="list-style-type: none"><li>1. To understand the concepts of Hyper Text Markup Language and Cascading Style Sheets.</li><li>2. To learn JavaScript for creating dynamic websites.</li><li>3. To learn various operations performed on data among web applications using XML.</li><li>4. To learn Server-Side Programming using PHP.</li></ol>   |
| 7 | Generic Elective         | Creative Content Writing | <ol style="list-style-type: none"><li>1. To introduce students to the concepts of content writing.</li><li>2. To connect them with various writing and editing styles and techniques.</li><li>3. To help them develop their creative abilities.</li><li>4. To improve the learners' employ-ability</li><li>5. Understand the fundamentals of content creation for Blog, Website etc.</li><li>6. Acquire the ability to write and edit in a variety of styles and procedures. To develop the creative abilities.</li></ol> |



  
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## SEMESTER IV

| Sr. No | Course Component | Course                | Course Outcomes  |
|--------|------------------|-----------------------|--|
| 1      | Core Subject     | Theory of Computation | <ol style="list-style-type: none"><li>To give an overview of the theoretical foundations of computer science from the perspective of formal languages.</li><li>To illustrate finite state machines to solve problems in computing.</li><li>To explain the hierarchy of problems arising in the computer sciences.</li><li>Understand Grammar and Languages and learn about Automata theory and its application in Language Design.</li><li>Understand Linear Bound Automata and its applications</li></ol> |
| 2      | Core Subject     | Computer Networks     | <ol style="list-style-type: none"><li>To Understand Basic Concepts of Networking.</li><li>Give knowledge of introduction of computer networks, with a special focus on the Internet architecture and protocols.</li><li>To Understand Working of Network Layer Architecture.</li><li>To Learn Practical Implementation of Basic Routing Algorithms.</li></ol>  |
| 3      | Core Subject     | Software Engineering  | <ol style="list-style-type: none"><li>To learn and understand the Concepts of Software Engineering</li><li>To learn and understand Software Development Life Cycle.</li><li>To apply the project management and analysis principles to software project development.</li><li>To apply the design &amp; testing principles to software project development.</li></ol>   |
| 4      | Core Subject     | IOT Technologies      | <ol style="list-style-type: none"><li>Understand the design &amp; testing principles to software project development.</li><li>Interfacing various types of devices using different protocols with IoT.</li><li>Understand practical applications of IoT in real life world.</li></ol>  |



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|---|--------------------------|----------------------------------|--|
| 5 | Skill Enhancement Course | Android Application Development  | <ol style="list-style-type: none"><li>1. To create robust mobile applications on simulators and physical devices.</li><li>2. Understanding how to create intuitive, reliable mobile apps using the android services and components.</li><li>3. To handle data local and remote data storage and create a seamless user interface that works with different mobile screens.</li></ol> |
| 6 | Skill Enhancement Course | Advanced Application Development | <ol style="list-style-type: none"><li>1. To understand all the necessary and important technologies such as MongoDB, Express.js, AngularJS, and Node.js.</li><li>2. To understand modern app development using Flutter.</li><li>3. To know about how to store the data in NoSQL, document-oriented MongoDB database that brings performance and scalability.</li></ol>               |
| 7 | Generic Elective         | Management & Entrepreneurship    | <ol style="list-style-type: none"><li>1. To understand the idea of management, process and its levels.</li><li>2. To understand the perception of entrepreneurship, process and its types.</li><li>3. To understand the concept SSI and steps to start SSI.</li><li>4. To understand the selection of project, project report, project appraisal, and its feasibility.</li></ol>     |



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## SEMESTER VI

| Sr. No | Course Component         | Course                | Course Outcomes   |
|--------|--------------------------|-----------------------|---|
| 1      | Core Subject             | Cloud Computing       | <ol style="list-style-type: none"> <li>To understand the concept of Cloud computing, web 2.0 , Service-Oriented Computing, Utility-Oriented Computing. Elements of Parallel Computing. Elements of Distributed Computing. Technologies for Distributed Computing. Cloud Computing Architecture. The cloud reference model.</li> <li>To learn and understand concept of Virtualized Environments, Virtualization using KVM, Creating virtual machines, oVirt - management tool for virtualization environment.</li> <li>To understand o OpenStack, OpenStack test-drive, Basic OpenStack operations and Controller deployment, Networking deployment, Block Storage</li> </ol> |
| 2      | Core Subject             | Cyber Forensics       | <ol style="list-style-type: none"> <li>To understand Computer Forensics, Data encryption, Automated Search Techniques.</li> <li>To know about Network Forensics and tracking network traffic.</li> <li>To learn about Cell phone and Mobile Forensics.</li> <li>To get to know about Internet Forensics , E-mail Forensics, Messenger Forensics: Yahoo Messenger, Social Media Forensics: Social Media Investigations Browser Forensics.</li> </ol>   |
| 3      | Core Subject             | Data Science          | <ol style="list-style-type: none"> <li>To understand What is data ? And high level programming language + Integrated Development , Environment (IDE), Exploratory Data Analysis (EDA) + Data Visualization.</li> <li>To understand Curation by using various methods to transform data.</li> <li>To learn and understand about Statistical Modelling and Machine Learning.</li> </ol>   |
| 4      | Core Subject             | Information Retrieval | <ol style="list-style-type: none"> <li>To understand the history of IR , Boolean retrieval, Dictionaries and tolerant retrieval.</li> <li>To get knowledge of Link Analysis and Specialized Search.</li> <li>To understand Web Search Engine and structure of Web Search Engine.</li> </ol>   |
| 5      | Skill Enhancement Course | Ethical Hacking       | <ol style="list-style-type: none"> <li>To understand how to identify security vulnerabilities and weaknesses in the target applications.</li> <li>Students will also know to test and exploit systems using various tools and understand the impact of hacking in real time machines.</li> <li>To learn about pre-attacking , black hat , white hat and Red hat hacking.</li> <li>To know about Types of attacks and their common prevention mechanisms.</li> </ol>   |

*Asishwar*  
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## SEMESTER V

| Sr. No | Course Component | Course                                 | Course Outcomes  |
|--------|------------------|--|--|
| 1      | Core Subject     | Linux Server Administration            | <ol style="list-style-type: none"><li>1. To understand Linux Distributions, Managing Software.</li><li>2. To give students information about basic network Configuration and System and network security.</li><li>3. To understand DNS , FTP , SMTP, Network authentication , Kerberos , OpenLDAP Server</li><li>4. To get interaction with Network File System , Distributed File Systems, Network Information Service , Lightweight Directory Access Protocol , Dynamic Host Configuration Protocol.</li></ol>   |
| 2      | Core Subject     | Software Testing and Quality Assurance | <ol style="list-style-type: none"><li>1. Understand various software testing methods and strategies.</li><li>2. Understand a variety of software metrics, and identify defects and managing those defects for improvement in quality for given software.</li><li>3. Design SQA activities, SQA strategy, formal technical review report for software quality control and assurance.</li></ol>  |
| 3      | Core Subject     | Information and Network Security       | <ol style="list-style-type: none"><li>1. Understand the principles and practices of cryptographic techniques.</li><li>2. Understand a variety of generic security threats and vulnerabilities, and identify &amp; analyze particular security problems for a given application.</li><li>3. Understand various protocols for network security to protect against the threats in a network.</li></ol>  |
| 4      | Core Subject     | Architecting of IOT                    | <ol style="list-style-type: none"><li>1. By using IOT students should able to design &amp; develop IOT Devices.</li><li>2. To understand IOT Model and architecture , IOT reference Model, Functional View, Deployment and Operational View, Other Relevant architectural views.</li><li>3. To understand Deployment and Operational View, Other Relevant architectural views.</li><li>4. To understand brief information about Transport layer protocols : Transport Layer (TCP, MPTCP, UDP, DCCP, SCTP)-(TLS, DTLS) Session layer: Session Layer-HTTP, CoAP, XMPP, AMQP, MQTT Service layer protocols: Service Layer -oneM2M, ETSI M2M, OMA, BBF</li></ol> |



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|   |                          |                  |  |
|---|--------------------------|------------------|--|
| 5 | Skill Enhancement Course | Game Programming | <ol style="list-style-type: none"><li>1. Learner should study Graphics and gaming concepts with present working style of development.</li><li>2. To understand The Cartesian XY-plane, Function Graphs, Geometric Shapes, Polygonal Shapes, Areas of Shapes, Theorem of Pythagoras in 2D &amp; 3D, 3D Polygons, Euler's Rule .</li><li>3. To handle DirectX Pipeline and Programming with knowledge of DirectX 11, DirectX 11, Trigonometry.</li><li>4. To understand Rendering Engines, Unity Engine: Multi-platform publishing, VR + AR, cripting: Scripting Overview, Scripting Tools and Event Overview.</li></ol> |
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### SEMESTER VI

| Sr. No | Course Component         | Course                | Course Outcomes   |
|--------|--------------------------|-----------------------|---|
| 1      | Core Subject             | Cloud Computing       | <ol style="list-style-type: none"> <li>To understand the concept of Cloud computing, web 2.0 , Service-Oriented Computing, Utility-Oriented Computing. Elements of Parallel Computing. Elements of Distributed Computing. Technologies for Distributed Computing. Cloud Computing Architecture. The cloud reference model.</li> <li>To learn and understand concept of Virtualized Environments, Virtualization using KVM, Creating virtual machines, oVirt - management tool for virtualization environment.</li> <li>To understand o OpenStack, OpenStack test-drive, Basic OpenStack operations and Controller deployment, Networking deployment, Block Storage</li> </ol> |
| 2      | Core Subject             | Cyber Forensics       | <ol style="list-style-type: none"> <li>To understand Computer Forensics, Data encryption, Automated Search Techniques.</li> <li>To know about Network Forensics and tracking network traffic.</li> <li>To learn about Cell phone and Mobile Forensics.</li> <li>To get to know about Internet Forensics , E-mail Forensics, Messenger Forensics: Yahoo Messenger, Social Media Forensics: Social Media Investigations Browser Forensics.</li> </ol>   |
| 3      | Core Subject             | Data Science          | <ol style="list-style-type: none"> <li>To understand What is data ? And high level programming language + Integrated Development , Environment (IDE), Exploratory Data Analysis (EDA) + Data Visualization.</li> <li>To understand Curation by using various methods to transform data.</li> <li>To learn and understand about Statistical Modelling and Machine Learning.</li> </ol>   |
| 4      | Core Subject             | Information Retrieval | <ol style="list-style-type: none"> <li>To understand the history of IR , Boolean retrieval, Dictionaries and tolerant retrieval.</li> <li>To get knowledge of Link Analysis and Specialized Search.</li> <li>To understand Web Search Engine and structure of Web Search Engine.</li> </ol>   |
| 5      | Skill Enhancement Course | Ethical Hacking       | <ol style="list-style-type: none"> <li>To understand how to identify security vulnerabilities and weaknesses in the target applications.</li> <li>Students will also know to test and exploit systems using various tools and understand the impact of hacking in real time machines.</li> <li>To learn about pre-attacking , black hat , white hat and Red hat hacking.</li> <li>To know about Types of attacks and their common prevention mechanisms.</li> </ol>   |

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