



Dr. Moonje Institute of Management  
and Computer Studies

Central Hindu Military Education Society's  
**Dr. Moonje Institute of Management & Computer Studies**  
(Affiliated to S.P. Pune University & Approved by AICTE New Delhi)  
(Accredited by NAAC with B+ Grade)

Bhonsala Military College Campus Rambhoomi, Nashik – 422 005

Ph. No. (0253) 2342840, 9175917050

PUN Code : IMMNO17930, DTE Code : 5119, Exam Code : 0688  
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### 2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website

The Programme and course outcomes for all Programmes offered by the institution are stated and displayed on website and communicated to all the students and teachers.

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**Director - DMIMCS**  
**Director**  
Dr. Moonje Institute,  
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## Program Outcomes - MBA

The MBA Programme facilitates learning in theory and practice of different functional areas of management and equips the students with an integrated approach to various functions of management.

### MBA (2022 Pattern / Revised 2019)

Programme Outcomes (POs): At the end of the MBA programme the learner will possess the

- 1. Generic and Domain Knowledge** - Ability to articulate, illustrate, analyze, synthesize and apply the knowledge of principles and frameworks of management and allied domains to the solutions of real-world complex business issues
- 2. Problem Solving & Innovation** - Ability to Identify, formulate and provide innovative solution frameworks to realworld complex business and social problems by systematically applying modern quantitative and qualitative problem solving tools and techniques.
- 3. Critical Thinking** - Ability to conduct investigation of multidimensional business problems using research based knowledge and research methods to arrive at data driven decisions
- 4. Effective Communication** - Ability to effectively communicate in cross-cultural settings, in technology mediated environments, especially in the business context and with society at large
- 5. Leadership and Team Work** - Ability to collaborate in an organizational context and across organizational boundaries and lead themselves and others in the achievement of organizational goals and optimize outcomes for all stakeholders.
- 6. Global Orientation and Cross-Cultural Appreciation:** Ability to approach any relevant business issues from a global perspective and exhibit an appreciation of Cross Cultural aspects of business and management.



**7. Entrepreneurship** - Ability to identify entrepreneurial opportunities and leverage managerial & leadership skills for founding, leading & managing startups as well as professionalizing and growing family businesses.

**8. Environment and Sustainability** - Ability to demonstrate knowledge of and need for sustainable development and assess the impact of managerial decisions and business priorities on the societal, economic and environmental aspects.

**9. Social Responsiveness and Ethics** - Ability to exhibit a broad appreciation of the ethical and value underpinnings of managerial choices in a political, cross-cultural, globalized, digitized, socio-economic environment and distinguish between ethical and unethical behaviors & act with integrity.

**10. Life Long Learning** – Ability to operate independently in new environment, acquire new knowledge and skills and assimilate them into the internalized knowledge and skills.



## Program Outcomes - MCA

The basic objective of the education of the Masters programme in Computer Application (MCA) is to provide to the country a steady stream of the necessary knowledge, skills and foundation for acquiring a wide range of rewarding careers into the rapidly expanding world of the Information Technology.

### MCA (2020 Pattern)

MCA Programme Outcomes (POs): At the end of the MCA programme the learner will possess the following Program Outcome:

- 1) PO1: Apply knowledge of computing fundamentals, computing specialization, mathematics, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements.
- 2) PO2: Identify, formulate, research literature, and solve complex Computing problems reaching substantiated conclusions using fundamental principles of Mathematics, Computing sciences, and relevant domain disciplines.
- 3) PO3: Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
- 4) PO4: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.
- 5) PO5: Create, select, adapt and apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations.
- 6) PO6: Understand and commit to professional ethics and cyber regulations, responsibilities, and norms of professional computing practice.
- 7) PO7: Recognize the need, and have the ability, to engage in independent learning for continual development as a Computing professional.



- 8) PO8: Demonstrate knowledge and understanding of computing and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- 9) PO9: Communicate effectively with the computing community, and with society at large, about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear instructions.
- 10) PO10: Understand and assess societal, environmental, health, safety, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to professional computing practice.
- 11) PO11: Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary environments.
- 12) PO12: Identify a timely opportunity and using innovation to pursue that opportunity to create value and wealth for the betterment of the individual and society at large.





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## Program Specific Outcomes (PSO)

The Institutes define the PSOs for each specialization /major-minor combination. It is vary based upon the customized combination of Generic Core, Generic Elective, Subject Core, Subject Elective, Foundation, and Enrichment & Alternative Study Credit Courses that they offer.

### Program Specific Outcomes (PSO)-MBA

**PSO1:** To develop marketing managers to showcase their skills in various fields of marketing.

**PSO2:** To deliver the different aspects of managing finance and accounting like securities, investments, banking, risk management and business.

**PSO3:** To equip students with General management skills and the learning about human resource practices

**PSO4:** To equip with knowledge required for careers in Supply Chain Management, Production Operations, Quality Management and Service Procedures.

### Program Specific Outcomes-MCA

**PSO 1:** To deliver latest programming language and tools to develop better and faster applications in the fields of Systems Designing, Application Software Development, Enterprise Resource Planning, Web Designing and Development, Database Administration, Cloud Computing etc.

**PSO 2:** To impart all-inclusive knowledge, technical expertise, and hands-on experience in IT infrastructure and security management for implementing IT Infrastructure and security solutions to handle Industry Challenges

**PSO3:** To develop competent workforce in the field of Business Intelligence, Data Warehousing,



and Data Mining Information Security Audits etc. this is important in any organization to take decisions, to prepare plans and to control activities.

**PSO 4 :** To develop basic and advanced skills in areas of Network Administration there by increasing the level of expertise in Computer Networks for career into Core Networking /Routing-n-Switching, System Administration etc.

**PSO5:** To guide for Certifications like:

- a. Java Certifications
- b. .Net Certifications
- c. Certified Information Security Manager (CISM)
- d. ISACA Certifications
- e. Testing Certifications
- f. Red Hat Certified System Administrator (RHCSA)
- g. Red Hat Certified Engineer (RHCE)
- h. Microsoft certifications(MCSE)
- i. CCNA/CCNP Wireless Certification



and Data Mining Information Security Audits etc. this is important in any organization to take decisions, to prepare plans and to control activities.

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- g. Red Hat Certified Engineer (RHCE)
- h. Microsoft certifications(MCSE)
- i. CCNA/CCNP Wireless Certification







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| CHME Society's   |
| <b>Dr. Moonje Institute of Management and Computer Studies, Nashik</b> |
| <b>MBA</b>   |
| Pattern 2022 / Revised 2019  |
| <b>Course Outcomes (CO)</b>  |

| Subject Code | Subject Name             | Course Type                    | Course Outcome   |
|--------------|--------------------------|--------------------------------|--|
| SEM 1        |                          |                                |  |
| 101          | Managerial Accounting    | Compulsory Generic Core Course | <ol style="list-style-type: none"> <li>1. DESCRIBE the basic concepts related to Accounting, Financial Statements, Cost Accounting, Marginal Costing, Budgetary Control and Standard Costing</li> <li>2. EXPLAIN in detail, all the theoretical concepts taught through the syllabus.</li> <li>3. PERFORM all the necessary calculations through the relevant numerical problems.</li> <li>4. ANALYSE the situation and decide the key financial as well as non-financial elements involved in the situation.</li> <li>5. EVALUATE the financial impact of the decision.</li> <li>6. CREATE the Financial Statement of Sole Proprietor, Cost Sheet and Budgets</li> </ol>  |
| 102          | Organizational Behaviour | Compulsory Generic Core Course | <ol style="list-style-type: none"> <li>1. Describe complexities of individual and group behavior in the organizations.</li> <li>2. Explain the implications of organizational behavior from the perspectives of employees, managers, leaders and the organization.</li> <li>3. APPLY Theories, Models, Principles and Frameworks of organizational behavior in specific organizational settings</li> <li>4. ANALYZE human behavioural problems like conflict, low motivational levels, politics, attitudinal issues etc. and develop solutions to these problems.</li> <li>5. FORMULATE approaches to reorient individual, team, managerial and leadership behavior in order to achieve organizational goals.</li> <li>6. DEVELOP strategies for challenges faced during shaping organizational behavior, organizational culture and organizational change.</li> </ol> |



|     |  |                                |   |
|-----|--|--------------------------------|---|
| 103 | Economic Analysis for Business Decisions | Compulsory Generic Core Course | <ol style="list-style-type: none"> <li>1. DEFINE the key terms.</li> <li>2. EXPLAIN the key concepts in economics, from a managerial perspective.</li> <li>3. IDENTIFY the various issues in an economics context and HIGHLIGHT their significance from the perspective of business decision making.</li> <li>4. EXAMINE the inter-relationships between various facets of micro-economics from the perspective of a consumer, firm, industry, market, competition and business cycles.</li> <li>5. EVALUATE critical thinking based on principles of micro-economics for informed business decision making.</li> <li>6. ELABORATE how other firms in an industry and consumers will respond to economic decisions made by a business, and how to incorporate these responses into their own decisions.</li> </ol>  |
| 104 | Business Research Methods                | Compulsory Generic Core Course | <ol style="list-style-type: none"> <li>1. DEFINE various concepts &amp; terms associated with scientific business research.</li> <li>2. EXPLAIN the terms and concepts used in all aspects of scientific business research.</li> <li>3. MAKE USE OF scientific principles of research to SOLVE contemporary business research problems.</li> <li>4. EXAMINE the various facets of a research problem and ILLUSTRATE the relevant aspects of the research process from a data driven decision perspective.</li> <li>5. JUDGE the suitability of alternative research designs, sampling designs, data collection instruments and data analysis options in the context of a given real-life business research problem from a data driven decision perspective.</li> <li>6. FORMULATE alternative research designs, sampling designs, data collection instruments, testable hypotheses, data analysis strategies and research reports to address real-life business research problems.</li> </ol>   |
| 105 | Basics of Marketing                      | Compulsory Generic Core Course | <ol style="list-style-type: none"> <li>1. REPRODUCE the key marketing concepts, components and principles of marketing environment, segmenting, targeting, positioning, consumer behaviour, marketing mix, and product life cycle.</li> <li>2. INTERPRET the basic concepts, principles and frameworks of marketing in the context of diverse business situations for explaining the relevant issues with regard to marketing environment, segmenting, targeting, positioning, consumer behaviour, marketing mix, and product life cycle.</li> <li>3. APPLY the contemporary marketing theories, frameworks and tools to inform problem solving with respect to marketing environment, segmenting, targeting, positioning, consumer behaviour, marketing mix, and product life cycle.</li> <li>4. EXAMINE the critical marketing issues for drawing inferences about the underlying causes and relationships concerning marketing environment, segmenting, targeting, positioning, consumer behaviour, marketing mix, and product life cycle.</li> <li>5. EVALUATE the alternative courses of actions to make judgments with regard to the solution for problems involving marketing environment, segmenting, targeting, positioning, consumer behaviour, marketing mix, and product life cycle.</li> <li>6. GENERATE alternative approaches to the emerging business challenges in the context of marketing environment, segmenting, targeting, positioning, consumer behaviour, marketing mix, and product life cycle.</li> </ol> |
| 106 | Digital Business                         | Compulsory Generic Core Course | <ol style="list-style-type: none"> <li>1. DESCRIBE the conceptual framework of e commerce, mobile commerce and social commerce.</li> <li>2. SUMMARIZE the impact of information, mobile, social, digital, IOT and related technologies on society, markets &amp; commerce.</li> <li>3. ILLUSTRATE value creation &amp; competitive advantage in a digital Business environment.</li> <li>4. EXAMINE the changing role of intermediaries, changing nature of supply chain and payment systems in the online and offline world.</li> <li>5. ELABORATE upon the various types of digital business models and OUTLINE their benefits &amp; limitations.</li> <li>6. DISCUSS the various applications of Digital Business in the present day world.</li> </ol>   |



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|-----|---------------------------------------|-------------------------------------|---|
| 107 | Management Fundamentals               | Generic Elective – University Level | <ol style="list-style-type: none"> <li>1. ENUMERATE various managerial competencies and approaches to management.</li> <li>2. EXPLAIN the role and need of Planning, Organizing, Decision Making and Controlling.</li> <li>3. MAKE USE OF the principles of goal setting and planning for simple as well as complex tasks and small projects.</li> <li>4. COMPARE and CONTRAST various organizational structures of variety of business and not-for-profit entities in a real world context.</li> <li>5. BUILD a list of the decision making criteria used by practicing managers, leaders and entrepreneurs in routine and non-routine decision making situations and EVALUATE and EXPLAIN the same.</li> <li>6. FORMULATE and DISCUSS a basic controlling model in a real life business, start-up and not-for-profit organizational context.</li> </ol>   |
| 109 | Entrepreneurship Development          | Generic Elective – University Level | <ol style="list-style-type: none"> <li>1. DEFINE the key terms, LIST the Attributes and Characteristics of Entrepreneurs features and ENUMERATE the Factors influencing Entrepreneurship Growth.</li> <li>2. DISCUSS various theories of entrepreneurship and the entrepreneurship development ecosystem in Indian context.</li> <li>3. APPLY the theories of entrepreneurship and entrepreneurship development framework to analyze and identify entrepreneurial opportunities.</li> <li>4. DISCRIMINATE between potential options available entrepreneur for embarking on establishing Start-Up.</li> <li>5. EVALUATE the start up ecosystem and the entrepreneurial opportunities in light of requirements of a business plan.</li> <li>6. CREATE a business plan that captures entrepreneurs and variety of entrepreneur motivations, entrepreneur culture and sectoral opportunities and financing options.</li> </ol> |
| 110 | Essentials of Psychology for Managers | Generic Elective – University Level | <ol style="list-style-type: none"> <li>1. Describe the concepts of psychology in organization settings to understand individual and group behaviour.</li> <li>2. INTERPRET the influence of human psychology on individual and group performance.</li> <li>3. APPLY principles of learning and conditioning to shape the individual and group behaviour.</li> <li>4. ILLUSTRATE the linkages between learning, memory and information processing.</li> <li>5. ASSESS the basic intrapersonal processes that influence social perception in organizational settings.</li> </ol>  |
| 113 | Verbal Communication Lab              | Generic Elective – Institute Level  | <ol style="list-style-type: none"> <li>1. RECOGNIZE the various elements of communication, channels of communication and barriers to effective communication.</li> <li>2. EXPRESS themselves effectively in routine and special real world business interactions.</li> <li>3. DEMONSTRATE appropriate use of body language.</li> <li>4. TAKE PART IN professional meetings, group discussions, telephonic calls, elementary interviews and public speaking activities.</li> <li>5. APPRAISE the pros and cons of sample recorded verbal communications in a business context.</li> <li>6. CREATE and DELIVER effective business presentations, using appropriate technology tools, for common business situations.</li> </ol>   |
| 115 | Selling & Negotiations                | Generic Elective – Institute Level  | <ol style="list-style-type: none"> <li>1. DESCRIBE the various selling situations and selling types.</li> <li>2. OUTLINE the pre-sales work to be carried out by a professional salesperson.</li> <li>3. IDENTIFY the key individuals involved in a real world sales process for a realworld product/ – service / e-product / e-service.</li> <li>4. FORMULATE a sales script for a real world sales call for a product/ service / eproduct/ e-service.</li> <li>5. RECONSTRUCT the pros and cons of sample real world sales calls for a product/ service / e-product / e-service.</li> <li>6. DEVELOP a sales proposal for a real world product/ service / eproduct / eservice and for a real world selling situation.</li> </ol>  |



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| 116   | MS Excel                             | Generic Elective – Institute Level | <ol style="list-style-type: none"> <li>1. SELECT appropriate menus and functions of MS Excel to Create, Format, Import, Merge, Save, Print Spreadsheets &amp; Charts using business data.</li> <li>2. SHOW how to do basic troubleshooting and fix mistakes most people make when working with spreadsheets.</li> <li>3. USE various functions of MS Excel, Execute pivot table analysis, common (and powerful functions), and different types of lookups (vlookup, hlookup, and index/match).</li> <li>4. ILLUSTRATE the use of the most commonly used data-manipulation commands in MS Excel.</li> <li>5. DERIVE insights from multiple data sources in MS EXCEL and work with it to answer relevant business questions.</li> <li>6. CREATE standard Excel Templates for routine business data management and analysis activities.</li> </ol>  |
| SEM 2 |                                      |                                    |  |
| 201   | Marketing Management II              | Compulsory Generic Core Course     | <ol style="list-style-type: none"> <li>1. DESCRIBE the key terms associated with the 4 Ps of marketing for a real world marketing offering.</li> <li>2. DEMONSTRATE the relevance of marketing mix concepts &amp; frameworks for a real world marketing offering (commodities, goods, services, e-products/ e-services.)</li> <li>3. APPLY marketing Mix decisions for a real world marketing offering (commodities, goods, services, e-products/ e-Services.)</li> <li>4. EXAMINE marketing issues pertaining to Marketing Mix and Marketing Plan in the context of real world marketing offering (commodities, goods, services, e-products/ e-services.</li> <li>5. EXPLAIN the interrelationships between various elements of Marketing mix in the context of real world marketing offering (commodities, goods, services, e-products/ e-services</li> <li>6. DESIGN a marketing plan for a real world marketing offering (commodities, goods, services, e-products/e-services.)</li> </ol>   |
| 202   | Financial Management II              | Compulsory Generic Core Course     | <ol style="list-style-type: none"> <li>1. DESCRIBE the basic concepts related to Financial Management, Various techniques of Financial Statement Analysis, Working Capital, Capital Structure, Leverages and Capital Budgeting.</li> <li>2. EXPLAIN in detail all theoretical concepts throughout the syllabus</li> <li>3. PERFORM all the required calculations through relevant numerical problems.</li> <li>4. ANALYZE the situation and <ul style="list-style-type: none"> <li>• comment on financial position of the firm</li> <li>• estimate working capital required</li> <li>• decide ideal capital structure</li> <li>• evaluate various project proposals</li> </ul> </li> <li>5. EVALUATE impact of business decisions on Financial Statements, Working Capital, Capital Structure and Capital Budgeting of the firm</li> <li>6. CREATE Common Size Comparative Statements, Comparative Financial Statements using Ratio Analysis (Year-wise, Industry – wise), Comparative Proposals using Capital Budgeting Techniques</li> </ol> |
| 203   | Human Resources Management II        | Compulsory Generic Core Course     | <ol style="list-style-type: none"> <li>1. DESCRIBE the role of Human Resource Function in an Organization.</li> <li>2. DISCUSS the emerging trends and practices in HRM.</li> <li>3. ILLUSTRATE the different methods of HR Acquisition and retention.</li> <li>4. IDENTIFY the use of different appraisal and training methods in an organization.</li> <li>5. INTERPRET the sample job descriptions and job specifications for contemporary entry level roles in real world organizations.</li> <li>6. DESIGN the HR manual and compensation policy of the organization.</li> </ol>  |
| 204   | Operations & Supply Chain Management | Compulsory Generic Core            | <ol style="list-style-type: none"> <li>1. DEFINE basic terms and concepts related to Production, Operations, Services, Supply Chain and Quality Management.</li> </ol>   |



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|-----|--|-------------------------------------|---|
|     |  | Course                              | <ol style="list-style-type: none"> <li>EXPLAIN the process characteristics and their linkages with process- product matrix in a real world context.</li> <li>DESCRIBE the various dimensions of production planning and control and their inter-linkages with forecasting.</li> <li>CALCULATE inventory levels and order quantities and MAKE USE OF various inventory classification methods.</li> <li>OUTLINE a typical Supply Chain Model for a product / service and ILLUSTRATE the linkages with Customer Issues, Logistic and Business Issues in a real world context.</li> <li>ELABORATE upon different operational issues in manufacturing and services organisations where the decision-making element is emphasized.</li> </ol>  |
| 207 | Contemporary Frameworks in Management  | Generic Elective – University Level | <ol style="list-style-type: none"> <li>Understanding various traits, theories, models of emotional intelligence and its implications to address key questions within the organizations.</li> <li>Describe how companies can become good to great through their leaders and right positioning of people and explain why and how most companies fail to make the transition</li> <li>Explain the importance of team dynamics &amp; a systems perspective for the leadership role and challenges of managing people in organizations.</li> <li>Scrutinize the role of individual, groups, managers and leaders in influencing how people behave and in influencing organizational culture at large</li> <li>Application of different ideas and information effectively to rebuild individual, team, managerial and leadership behavior in order to achieve organizational excellence in a positive and collaborative manner to achieve common culture.</li> <li>Design Individual Assessment with the help of EQ, Habits and Team's susceptibility to five dysfunction.</li> </ol> |
| 209 | Start Up and New Venture Management II | Generic Elective – University Level | <ol style="list-style-type: none"> <li>DESCRIBE the strategic decisions involved in establishing a startup.</li> <li>EXPLAIN the decision making matrix of entrepreneur in establishing a startup.</li> <li>IDENTIFY the issues in developing a team to establish and grow a startup</li> <li>FORMULATE a go to market strategy for a startup.</li> <li>DESIGN a workable funding model for a proposed startup.</li> <li>DEVELOP a convincing business plan description to communicate value of the new venture to customers, investors and other stakeholders.</li> </ol>  |
| 210 | Qualitative Research Methods           | Generic Elective – University Level | <ol style="list-style-type: none"> <li>DESCRIBE the stages of scientific researches and qualitative research methods.</li> <li>COMPARE characteristics of qualitative research and quantitative research.</li> <li>CONSTRUCT appropriate research and sampling designs for Qualitative research work in real world business and non-business contexts</li> <li>ANALYZE the use of appropriate Qualitative research methods in real world Business &amp; non-business contexts.</li> <li>ASSESS the Qualitative Research work with the help of different quality criteria</li> <li>COMBINE Qualitative and Quantitative research approaches in a real world Research project</li> </ol>  |
| 213 | Written Analysis and Communication Lab | Generic Elective – University Level | <ol style="list-style-type: none"> <li>DESCRIBE stages in a typical communication cycle and the barriers to effective communication.</li> <li>SUMMARIZE long essays and reports into précis and executive summaries.</li> <li>USE Dictionary and Thesaurus to draft and edit a variety of business written communication.</li> <li>EXAMINE sample internal communications in a business environment for potential refinements.</li> <li>COMPOSE variety of letters, notices, memos and circulars.</li> </ol>  |



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| 205 MKT | Marketing Research II                       | Subject Core (SC)            | <ol style="list-style-type: none"> <li>1. IDENTIFY and DESCRIBE the key steps involved in the marketing research process.</li> <li>2. COMPARE and CONTRAST various research designs, data sources, data collection instruments, sampling methods and analytical tools and SUMMARIZE their strengths &amp; weaknesses.</li> <li>3. DEMONSTRATE an understanding of the ethical framework that market research needs to operate within.</li> <li>4. ANALYSE quantitative data and draw appropriate Inferences to address a real life marketing issue.</li> <li>5. DESIGN a market research proposal for a real life marketing research problem and EVALUATE a market research proposal.</li> <li>6. PLAN and UNDERTAKE qualitative or quantitative Market Research and demonstrate the ability to appropriately analyse data to resolve a real life marketing issue.</li> </ol>   |
| 206 MKT | Consumer Behaviour II                       | Subject Core (SC)            | <ol style="list-style-type: none"> <li>1. RECALL the factors influencing Consumer's purchase decision making process</li> <li>2. OUTLINE consumer and organizational buyer behavior process.</li> <li>3. APPLY concepts of consumer behavior to real world marketing decision making.</li> <li>4. ANALYZE the consumer decision making process and the role of different determinants that affect the buying decision process.</li> <li>5. EXPLAIN the new trends influencing buyer behavior and its effect on new age Indian Consumer.</li> <li>6. DISCUSS the consumer and organizational buying behavior process for a variety of products (goods/services).</li> </ol>  |
| 218 MKT | Product & Brand Management                  | Subject Elective (SE) Course | <ol style="list-style-type: none"> <li>1. DEFINE the key concepts and DESCRIBE the elements of a product strategy.</li> <li>2. EXPLAIN the process and methods of brand management, including how to establish brand identity and build brand equity.</li> <li>3. IDENTIFY the Brand Marketing Strategies for Leaders, Challengers, Followers and Niche Strategies for real life consumer, business products and services operating in various markets and in the digital space.</li> <li>4. EXAMINE the key brand concepts by articulating the context of and the rationale of application for real life consumer, business products and services operating in various markets and in the digital space.</li> <li>5. FORMULATE effective branding strategies for real life consumer, business products and services operating in various markets and in the digital space.</li> <li>6. COLLECT brand audit data using appropriate tools and PROPOSE strategic recommendations for Reinforcing / Revitalizing / Rejuvenating failed Brands for real life consumer, business products and services in various markets and in the digital space.</li> </ol> |
| 220 MKT | Digital Marketing - I                       | Subject Elective (SE) Course | <ol style="list-style-type: none"> <li>1. DEFINE various concepts related to Digital Marketing.</li> <li>2. EXPLAIN the role of Facebook, Google Ad words, Youtube and Email in digital marketing.</li> <li>3. MAKE USE OF Facebook, Google Ad words, Youtube and Email for carrying out digital marketing of real life products.</li> <li>4. ILLUSTRATE the use of Facebook, Google Ad words, Youtube and Email in various contexts of Digital Marketing.</li> <li>5. DESIGN digital media campaign using appropriate mix of Facebook, Google Ad words, Youtube and Email.</li> <li>6. CREATE appropriate content for Facebook, Google Ad words, Youtube and Email campaigns.</li> </ol>   |
| 205 FIN | Financial Markets and Banking Operations II | Subject Core (SC)            | <ol style="list-style-type: none"> <li>1. RECALL the structure and components of Indian financial system through banking operations &amp; Financial Markets.</li> <li>2. UNDERSTAND the concepts of financial markets, their working and importance</li> <li>3. ILLUSTRATE the working and contribution of Banks and NBFCs to the Indian Economy.</li> </ol>  |



|         |   |                              |  |
|---------|---|------------------------------|--|
|         |   |                              | <ol style="list-style-type: none"> <li>4. ANALYZE the linkages in the Financial Markets.</li> <li>5. EXPLAIN the various banking and accounting transactions.</li> <li>6. DEVELOP necessary competencies expected of a finance professional.</li> </ol>  |
| 206 FIN | Personal Financial Planning II                | Subject Core (SC)            | <ol style="list-style-type: none"> <li>1. UNDERSTAND the need and aspects of personal financial planning</li> <li>2. Describe the investment options available to an individual</li> <li>3. IDENTIFY types of risk and means of managing it</li> <li>4. DETERMINE the ways of personal tax planning</li> <li>5. EXPLAIN retirement and estate planning for an individual and design a financial plan.</li> <li>6. CREATE a financial plan for a variety of individuals</li> </ol>  |
| 217 FIN | Securities Analysis & Portfolio Management II | Subject Elective (SE) Course | <ol style="list-style-type: none"> <li>1. REMEMBER various concepts of investments, Bonds.</li> <li>2. EXPLAIN various theories of Investment Analysis and Portfolio Management.</li> <li>3. CALCULATE risk and return on investment using various concepts covered in the syllabus.</li> <li>4. ANALYZE and DISCOVER intrinsic value of a security.</li> <li>5. DESIGN/ CREATE optimal portfolio.</li> </ol>  |
| 219 FIN | Direct Taxation II                            | Subject Elective (SE) Course | <ol style="list-style-type: none"> <li>1. REMEMBER various basic concepts / terminologies related Direct Taxation</li> <li>2. EXPLAIN how tax planning can be done.</li> <li>3. CALCULATE Gross Total Income and Income Tax Liability of an individual assessee.</li> <li>4. Permissible exemptions and deductions from income under Income Tax Act.</li> <li>5. EVALUATE the tax liability and benefits of possible exemptions under Income Tax Act.</li> <li>6. DESIGN / DEVELOP / CREATE tax saving plan.</li> </ol>  |
| 205 HR  | Competency Based Human Resource Management II | Subject Core (SC) Course     | <ol style="list-style-type: none"> <li>1. DEFINE the key terms related to performance management and competency development.</li> <li>2. EXPLAIN various models of competency development.</li> <li>3. PRACTICE competency mapping.</li> <li>4. ANALYSE competencies required for present and potential future job roles at various levels and across variety of organizations.</li> <li>5. DESIGN and MAP their own competency and plan better and appropriate career for themselves.</li> <li>6. DEVELOP a customized competency model in accordance with the corporate requirements.</li> </ol> |
| 206 HR  | Employee Relations & Labour Legislation II    | Subject Core (SC) Course     | <ol style="list-style-type: none"> <li>1. SHOW awareness of important and critical issues in Employee Relations</li> <li>2. INTERPRET and relate legislations governing employee relations.</li> <li>3. DEMONSTRATE an understanding of legislations relating to working environment.</li> <li>4. OUTLINE the role of government, society and trade union in ER.</li> <li>5. EXPLAIN aspects of collective bargaining and grievance handling.</li> <li>6. DISCUSS the relevant provisions of various Labour Legislations.</li> </ol>   |
| 218 HRM | Lab in Recruitment and Selection II           | Subject Elective (SE) Course | <ol style="list-style-type: none"> <li>1. DESCRIBE the key concepts such as Job Specification, Job description, Recruitment and Selection.</li> <li>2. COMPARE and CONTRAST various methods of Recruitment and Selection.</li> <li>3. DEVELOP Job Specifications and Job descriptions in a variety of context.</li> <li>4. ANALYZE various Personality types.</li> <li>5. EXPLAIN the profiling techniques used to test Personality, Aptitude, Competency.</li> <li>6. COMPILER a list of questions for Recruitment and Selection interviews.</li> </ol>   |



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| 219 HRM  | Learning and Development              | Subject Elective (SE) Course | <ol style="list-style-type: none"> <li>1. DESCRIBE the key concepts associated with Learning &amp; Development</li> <li>2. EXPLAIN the training process and the various methods of training for various categories of employees in a variety of organizational contexts.</li> <li>3. IDENTIFY training needs of various categories of employees in a variety of organizational contexts</li> <li>4. EXAMINE the impact of training on various organizational and HR aspects.</li> <li>5. EVALUATE the training process of various categories of employees in a variety of organizational contexts</li> <li>6. DESIGN a training programme for various categories of employees in a variety of organizational contexts.</li> </ol> |
| 205 OSCM | Services Operations Management - I II | Subject Core (SC) Course     | <ol style="list-style-type: none"> <li>1. DESCRIBE the nature and CHARACTERISTICS of services and the services economy.</li> <li>2. DESCRIBE the service design elements of variety of services.</li> <li>3. USE service blueprinting for mapping variety of real life service processes.</li> <li>4. ANALYSE alternative locations and sites for variety of service facilities.</li> <li>5. JUDGE and EXPLAIN the service orientation at variety of service facilities / organizations.</li> <li>6. CREATE flow process layouts for variety of services.</li> </ol>  |
| 206 OSCM | Supply Chain Management II            | Subject Core (SC) Course     | <ol style="list-style-type: none"> <li>1. DESCRIBE the key concepts of Supply Chain Management and the – driving forces in contemporary Supply Chain Management.</li> <li>2. EXPLAIN the structure of modern day supply chains.</li> <li>3. IDENTIFY the various flows in real world supply chains.</li> <li>4. COMPARE and CONTRAST push and pull strategies in Supply Chain Management.</li> <li>5. EXPLAIN the key Operational Aspects in Supply Chain Management.</li> <li>6. DISCUSS the relationship between Customer Value and Supply Chain Management.</li> </ol>   |
| 217 OSCM | Planning & Control of Operations II   | Subject Elective (SE) Course | <ol style="list-style-type: none"> <li>1. DESCRIBE the building blocks of Planning &amp; Control of Operations.</li> <li>2. EXPLAIN the need for aggregate planning and the steps in aggregate planning.</li> <li>3. MAKE USE OF the various forecasting approaches in the context of operations planning process.</li> <li>4. ILLUSTRATE how capacity planning is done in organizations and its relationship with MRP.</li> <li>5. EXPLAIN the importance of scheduling in operations management.</li> <li>6. CREATE a Bill of Materials.</li> </ol>   |
| 221 OSCM | Quality Management Standards          | Subject Elective (SE) Course | <ol style="list-style-type: none"> <li>1. DESCRIBE the concepts of Quality and importance of the Quality Management Principles</li> <li>2. INTERPRET the requirements of ISO 9001:2015 standard.</li> <li>3. APPLY process based thinking and risk based thinking for managing and improving the functioning of an organization</li> <li>4. TAKE PART IN planning, conducting and follow-up of QMS audits directed towards maintenance and continual improvements of the QMS</li> <li>5. DEVELOP skills for Corrective Action Management and Continual Improvement Project management.</li> <li>6. BUILD stakeholder confidence by managing processes in line with the latest requirements</li> </ol>                             |

| Subject Code | Subject Name         | Course Type               | Course Outcome   |
|--------------|----------------------|---------------------------|--|
| SEM 3        |                      |                           |  |
| 301          | Strategic Management | Generic Core (GC) Courses | <ol style="list-style-type: none"> <li>1. DESCRIBE the basic terms and concepts in Strategic Management.</li> <li>2. EXPLAIN the various facets of Strategic Management in a real world context</li> <li>3. DESCRIBE the trade-offs within and across strategy formulation, implementation, appraisal</li> </ol> |





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| 304HR   | Strategic Human Resource Management | Subject Core (SC) Course          | <ol style="list-style-type: none"> <li>1. "REMEMBER the strategies adopted by HR and their implementation issues and challenges faced by the organization in national and international context."</li> <li>2. "Ability to UNDERSTAND and ARTICULATE the basic concepts of SHRM and link the HR strategies to the organizational business strategies."</li> <li>3. Ability to ANALYZE HR as an investment to the company.</li> <li>4. "Ability to INTERPRET and EVALUATE the implementation of the HR strategies."</li> <li>5. "FORMULATE and provide realistic solutions to the industry by designing innovative strategies and logical decision making."</li> </ol>   |
| 305HR   | HR Operations                       | Subject Core (SC) Course          | <ol style="list-style-type: none"> <li>1. "DESCRIBE structure of personnel department, its policies and maintenance of employee files &amp; records"</li> <li>2. LEARN drafting of communications for disciplinary actions</li> <li>3. "DEMONSTRATE the knowledge and calculations of bonus, gratuity, PF, ESI etc."</li> <li>4. "EXPERIMENT to calculate the computation of Workmen compensation, Bonus and Gratuity as per relevant acts"</li> <li>5. "CALCULATE computation of Workmen compensation, Bonus and Gratuity"</li> <li>6. "FILE returns under various labour laws and prepare salary structure"</li> </ol>   |
| 304OSCM | Services Operations Management – II | Subject Core (SC) Course          | <ol style="list-style-type: none"> <li>1. DEFINE the key concepts in Services Operations Management.</li> <li>2. DIFFERENTIATE between various service strategies, service quality dimensions, and customer relationships based on life time value.</li> <li>3. "IDENTIFY the sources of value in a service supply relationship &amp; three factors that drive profitability for a professional service firm"</li> <li>4. CATEGORIZE a service firm according to its stage of competitiveness.</li> <li>5. "MODIFY the Service strategies of an organization for achieving the strategic service vision."</li> <li>6. SOLVE the relevant numerical in the scope of the subject.</li> </ol>   |
| 305OSCM | Logistics Management                | Subject Core (SC) Course          | <ol style="list-style-type: none"> <li>1. DEFINE basic terms and concepts related to Logistics management.</li> <li>2. EXPLAIN the infrastructure of logistics, its linkage with various types of communication modes.</li> <li>3. DESCRIBE the various dimensions of logistics management and transport, their inter-linkages with different types of freights.</li> <li>4. "CALCULATE logistic costs and various classification methods of reducing the cost. Involving the information technology and its impacts."</li> <li>5. OUTLINE a typical logistic framework and services. ILLUSTRATE the linkages with its dynamic storage system / Customer Issues, Logistic and Business Issues in a real world context.</li> <li>6. DISCUSS modern real world logistical systems using the various concepts in the syllabus.</li> </ol> |
| 307     | International Business Environment  | Generic Elective University Level | <ol style="list-style-type: none"> <li>1. Recall and Describe the key concepts of international Business Environment</li> <li>2. "Understand the relevance of Multinational Corporations (MNCs) in global trade"</li> <li>3. Demonstrate the significance of FDI and FPI in respect of developing economy</li> <li>4. Analyze the issues related to Labor, Environmental and Global Value chain</li> <li>5. Formulate and discuss the case related to various Agreements under WTO and contemporary global business environment.</li> </ol>  |
| 308     | Project Management                  | Generic Elective University Level | <ol style="list-style-type: none"> <li>1. DEFINE the key terms and concepts in project management.</li> <li>2. EXPLAIN the Importance of project management methodologies and tools at the distinct stages in the Project's life cycle</li> <li>3. ILLUSTRATE the importance of PM in most industries and businesses</li> <li>4. EXAMINE the importance of Leadership specifically in heterogenous and virtual teams as well as governance and approaches to conflict resolutions</li> <li>5. DESIGN dashboard, status report and index for Key Performance Indicators of project for the Management.</li> </ol>   |



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| 309     | Knowledge Management           | Generic Elective University Level | <ol style="list-style-type: none"> <li>1. DEFINE the key terms and concepts in Knowledge Management.</li> <li>2. DESCRIBE the Knowledge Management cycle</li> <li>3. DISCUSS the types of Knowledge and its implications.</li> <li>4. "OUTLINE the importance of capturing knowledge elements and its structures application as a competitive advantage to business"</li> <li>5. EXPLAIN the human and business aspects of knowledge management.</li> </ol>  |
| 312 MKT | Business to Business Marketing | Subject Elective (SE) Course      | <ol style="list-style-type: none"> <li>1. "DEFINE the terms and concepts related to Business to Business marketing"</li> <li>2. EXPLAIN the terms and concepts used in business to business marketing</li> <li>3. IDENTIFY challenges and opportunities in Business-to-Business Marketing.</li> <li>4. "FORMULATE segmentation, targeting and positioning, consumer buying behaviour and marketing mix in the context of Business to Business marketing"</li> <li>5. DESIGN marketing mix elements considering business-to-business sales and service situation</li> <li>6. DEVELOP marketing plan for business-to-business Marketing situations.</li> </ol>   |
| 313 MKT | International Marketing        | Subject Elective (SE) Course      | <ol style="list-style-type: none"> <li>1. ENUMERATE various terms and key concepts associated with international marketing.</li> <li>2. EXPLAIN various key concepts used in all aspects of international marketing.</li> <li>3. APPLY all stages in international marketing management process.</li> <li>4. "EXAMINE various facets of international marketing environment and the relevant aspects of international marketing management process from a data driven decision perspective."</li> <li>5. JUDGE suitability of alternative market segmentation bases, target market selection, market entry strategies, positioning strategies and international marketing mix strategies based on Assessment of international marketing environment.</li> <li>6. DESIGN appropriate market segmentation, target market, market entry strategies, positioning strategies and international marketing mix strategies for business organizations.</li> </ol>  |
| 314MKT  | Digital Marketing II           | Subject Elective (SE) Course      | <ol style="list-style-type: none"> <li>1. DEFINE the key terms and concepts related with digital marketing</li> <li>2. EXPLAIN various tools of digital marketing.</li> <li>3. MAKE USE OF various tools of digital marketing.</li> <li>4. "CLASSIFY the different tools and techniques of digital Marketing with respect to SEO, SEM and SMM to increase the customer acquisition and retention."</li> <li>5. ASSESS the suitability of Digital Marketing Tools w.r.t. SEO, SEM and SMM to increase cost-effectiveness in specific marketing situations.</li> <li>6. DEVELOP appropriate digital marketing campaign.</li> </ol>   |
| 315FIN  | Indirect Taxation              | Subject Elective (SE) Course      | <ol style="list-style-type: none"> <li>1. Remembering the key concepts of Indirect Taxes in India Identifying and enumerating the various terms associated with GST and other indirect taxes.</li> <li>2. "Explain how GST works as an Uniform Tax Structure, Illustrate the GST framework of India, &amp; describe the important concepts such as supply, dual taxation method, registration process, etc."</li> <li>3. Apply the theories and Principles and perform all calculation through numerical problems on valuation and calculation of taxes. Identify the time value of supply; determine the taxable person and tax levied on goods and services.</li> <li>4. "Illustrate the e filing process of GST Categorize the Goods and Services under GST and amount of tax to be paid using Dual tax concept."</li> <li>5. "Evaluate Input Tax Credit Process, reversal, late filing and New Amendments; appraise various indirect taxes; Interpret the GST framework in India &amp; verify the tax levied on Goods and Services."</li> <li>6. "Elaborate all Provisions of GST and can correlate with filing of returns; virtual e filing can be done Estimate the GST, TDS, anticipate goods, services, tax payable person for the business."</li> </ol> |



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| 316FIN  | Corporate Financial Restructuring   | Subject Elective (SE) Course | <ol style="list-style-type: none"> <li>1. DESCRIBE the basic concepts related corporate restructuring, Mergers &amp; Acquisitions, Valuation Aspects of Corporate Restructuring and Corporate Governance Aspects of Restructuring"</li> <li>2. EXPLAIN the motivations, decision processes, transaction execution, and valuation consequences of financial, business, and organizational restructuring by corporate units."</li> <li>3. PERFORM all the required calculations through relevant numerical problems.</li> <li>4. ANALYZE the situation by calculations of exchange ratio, financial returns, valuations and others.</li> <li>5. EVALUATE impact of corporate financial restructuring on all stakeholders</li> </ol>                           |
| 317FIN  | Financial Modelling                 | Subject Elective (SE) Course | <ol style="list-style-type: none"> <li>1. Remember the concepts, terminologies, frameworks, tools and techniques of Financial modeling</li> <li>2. UNDERSTAND the applications and use of MS Excel in financial modeling and its different techniques</li> <li>3. DEVELOP, APPLY and actually use core functionality of MS Excel in decision framework to solve managerial problems</li> <li>4. ANALYSE different financial models in order to eliminate substantial risk of poor spreadsheet coding</li> <li>5. FORMULATE an idea and acceptable solutions to solve different problems in the area of financial management</li> <li>6. BUILD financial models by making appropriate assumptions on financial factors relevant to the situation.</li> </ol> |
| 313HR   | Psychometric testing and Assessment | Subject Elective (SE) Course | <ol style="list-style-type: none"> <li>1. KNOW various tools of psychometry designed to measure traits of individuals"</li> <li>2. UNDERSTAND &amp; Conduct the group simulated exercises for organizational purpose"</li> <li>3. IDENTIFY AND ADMINISTER psychometric tools to respondents</li> <li>4. INTERPRET results and counsel the respondent based on the results"</li> <li>5. CREATE Psychometric Tests for the specific traits as required by the organization"</li> </ol>  |
| 316HR   | Mentoring and Coaching              | Subject Elective (SE) Course | <ol style="list-style-type: none"> <li>1. ENUMERATE various concepts of Mentoring and Coaching.</li> <li>2. UNDERSTAND techniques of Mentoring and Coaching</li> <li>3. APPLY models of Mentoring and Coaching to real world scenarios</li> <li>4. ANALYSE issues in Mentoring and Coaching</li> <li>5. DEVELOP skills needed to become Mentor, Coach</li> </ol>  |
| 317HR   | Compensation and Reward Management  | Subject Elective (SE) Course | <ol style="list-style-type: none"> <li>1. DESCRIBE concept of compensation and cost</li> <li>2. UNDERSTAND compensation and reward management process</li> <li>3. COMPARE issues related to compensation and survey of wages &amp; salary administration in various industries"</li> <li>4. EXPERIMENT to calculate various types of monetary and profit sharing incentives"</li> <li>5. CALCULATE income tax as per the current slabs for the employees under different salary brackets"</li> <li>6. FORMULATE salary structure incorporating tax saving components.</li> </ol>  |
| 312OSCM | Manufacturing Resource Planning     | Subject Elective (SE) Course | <ol style="list-style-type: none"> <li>1. DEFINE basic terms and concepts related to MRP II.</li> <li>2. DESCRIBE the integrated planning structure and functions incorporated within MRP.</li> <li>3. ILLUSTRATE the importance of MRP as a top-management planning tool</li> <li>4. IDENTIFY the vertical and horizontal cross-functional integration within the MRP II planning hierarchy</li> <li>5. EXPLAIN how what-if simulation, modeling, and analysis are used to produce feasible plans.</li> <li>6. DISCUSS how MRP supports the company's cost, quality, and delivery operating objectives.</li> </ol>   |



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| 305 RABM | Agriculture and Indian Economy                         | Subject Core (SC) Course       | <ol style="list-style-type: none"> <li>1. DEFINE the key terms in Indian Agriculture/Land Reforms/ economic holding.</li> <li>2. EXPLAIN the key terms in The place of agriculture in the national economy/ The present position of Indian Agriculture with an advanced management perspective.</li> <li>3. IDENTIFY the various issues in the Agriculture Industry in India. DEMONSTRATE their significance from the perspective of Indian farmer &amp; Indian Economy &amp; business decision making.</li> <li>4. EXAMINE the inter-relationships between various facets of Agriculture &amp; economy from the perspective of a farmer, Labour, firm, industry, market, competition and business cycles.</li> <li>5. DEVELOP critical thinking based on changing pattern of ownership and operational holdings in India, Farms size, Productivity/ Profitability and farm efficiency</li> <li>6. ANTICIPATE how other firms in an industry and consumers will respond to economic decisions made by a business, and how to incorporate these responses into their own decisions.</li> </ol> |
| 305 BA   | Machine Learning & Cognitive intelligence using Python | Subject Core (SC) Course       | <ol style="list-style-type: none"> <li>1. "DEFINE the key terms in Python, Machine Learning and Cognitive Intelligence"</li> <li>2. EXPLAIN the applications of Machine Learning in multiple business domains and scenarios</li> <li>3. DEVELOP a thought process to think like data scientist/business Analyst</li> <li>4. ANALYSE data using supervised and unsupervised Learning Techniques</li> <li>5. "SELECT the right functions, arrays of Python for Machine Learning algorithms."</li> <li>6. COMBINE various tools and functions of Python language in developing Machine Learning algorithms and use them in live analytical projects in multiple business domain and scenarios.</li> </ol>  |
| 313 BA   | Industrial Internet of Things                          | Subject Elective (SE) Course   | <ol style="list-style-type: none"> <li>1. "ENUMERATE the key concepts of industry 4.0, data science in manufacturing, operations analytics and IIOT"</li> <li>2. DISCUSS the value added by analytics in the operations function.</li> <li>3. DEMONSTRATE the practical applications of data analytics and data science in manufacturing operations.</li> <li>4. "EXAMINE the Industrial Internet of things (IIoT) and the role of Big Data Analytics."</li> <li>5. EXPLAIN the applications of analytics in operations.</li> <li>6. COMPILE the issues pertaining to the adoption of technologies that will shape industry</li> </ol>  |
| 303 THM  | Event Management                                       | Subject Elective (SE) Course   | <ol style="list-style-type: none"> <li>1. DESCRIBE the fundamentals of event management &amp; different types of Events</li> <li>2. EXPLAIN the concepts of Events &amp; guest requirements to plan an event</li> <li>3. DESIGN &amp; Budget an event from various perspectives</li> <li>4. EXAMINE possible shortfalls on an event &amp; create necessary back up systems to avoid failures</li> <li>5. COMPARE Success of an event in comparison to the set objectives</li> <li>6. "COMPOSE New concepts of the event with innovative ideas to leave a lasting impression in the guest's mind along with achieving organizational growth."</li> </ol>   |
| 301 THM  | Fundamentals of Hospitality Management                 | Subject Core (SC) Course       | <ol style="list-style-type: none"> <li>1. DESCRIBE different types of hotels &amp; travel agents</li> <li>2. "UNDERSTAND the basic functioning of star hotels, major operational,</li> <li>3. Departments, government rules &amp; regulations"</li> <li>4. USE of flow charts &amp; diagrams of various Hospitality Sectors to know the hierarchy of the organization</li> <li>5. EXAMINE current changes taking place in the Hotel &amp; Tourism Industry</li> <li>6. EVALUATE the changes required to improve traditional methods to suit the current market trends</li> <li>7. DEVELOP Smart techniques adaptable to the present market scenario for better customer satisfaction</li> </ol>   |
| 401      | Enterprise Performance Management                      | Compulsory Generic Core Course | <ol style="list-style-type: none"> <li>1. Enumerate the different parameters &amp; facets of management control of an enterprise.</li> <li>2. "Illustrate the various techniques of enterprise performance management for varied sectors."</li> <li>3. Determine the applicability of various tools and metrics as a performance evaluation &amp; management tools</li> <li>4. Analyse the key financial &amp; non-financial attributes to evaluate enterprise performance.</li> <li>5. Formulate the various parameters to evaluate enterprise performance effectively through implementation of strategy.</li> </ol>  |



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| 313OSCM  | Sustainable Supply Chains                       | Subject Elective (SE) Course | <ol style="list-style-type: none"> <li>1. ENUMERATE the key concepts of Sustainable Supply Chains and Sustainable Supply Chain Management.</li> <li>2. DESCRIBE and DISCUSS the role and importance of sustainability and sustainable development in different types of supply chains.</li> <li>3. "IDENTIFY and USE relevant established and emerging principles, frameworks and theories in sustainable logistics and supply chain management."</li> <li>4. INTEGRATE fundamental strategies, tools and techniques to analyze and design environmentally sustainable supply chain systems.</li> <li>5. DETERMINE the unsustainable impact of logistics activities, both individual, and in the wider context of the supply chain.</li> <li>6. "COMPILE the managerial challenges, and FORMULATE a structured solution to these, with clear implications for relevant stakeholders."</li> </ol> |
| 316OSCM  | Operations & Service Strategy                   | Subject Elective (SE) Course | <ol style="list-style-type: none"> <li>1. ENUMERATE the key components of operations strategy.</li> <li>2. "EXPLAIN the linkages between operations strategy and competitive advantage as the basis of competitive position through superior product development, cost, quality, features."</li> <li>3. "ILLUSTRATE the broader context of business strategy &amp; fit between manufacturing and operations capabilities and the business strategy"</li> <li>4. "EXAMINE the concepts of competitive leverage using manufacturing and operations, the fit of the various elements of manufacturing and operations, the impact of the competitive environment, and the structure of the value chain."</li> <li>5. DESIGN the operations and service strategy.</li> <li>6. "FORMULATE an operations strategy (long-term plan) and link with operational decisions."</li> </ol>                     |
| 312 IB   | Cross Cultural Management and Global Leadership | Subject Elective (SE) Course | <ol style="list-style-type: none"> <li>1. Describe the concept of culture and significance of cross-cultural management</li> <li>2. Outline the cultural values and differences with dimensions of cultural norms and behaviors</li> <li>3. Identify various factors affecting culture and decision-making models across cultures</li> <li>4. Examine theories of leadership with leadership across cultures</li> <li>5. Explain culturally intelligent leadership in international trade</li> <li>6. Discuss on leading and managing multicultural teams in international context</li> </ol>  |
| 304 IB   | Import Export Documentation and Procedures      | Subject Core (SC) Course     | <ol style="list-style-type: none"> <li>1. "Describe the process of import and export in the context of business"</li> <li>2. Explain the import and export transactions, classification and various payment terms</li> <li>3. Identify various types of documents required for the procedures involved in import and export</li> <li>4. Examine various documentation formats for the import and export processes</li> <li>5. Explain pre and post activities of import and export process</li> <li>6. "discuss on various aspects of trades, documentation and procedures for import and export"</li> </ol>   |
| 304 RABM | Rural Marketing – I                             | Subject Elective (SE) Course | <ol style="list-style-type: none"> <li>1. RECALL and REPRODUCE the various concepts, principles, frameworks, and terms related to the function and role of marketing in Rural areas.</li> <li>2. DISCUSS the Rural versus Urban Marketing concept and ILLUSTRATE the role that marketing plays in the 'tool kit' of a Rural Marketer</li> <li>3. APPLY the models of consumer behavior in the rural market</li> <li>4. EXAMINE and LIST different aspects of segmentation, targeting and positioning, marketing environmental forces, consumer buying behavior, in the context of rural marketing</li> <li>5. EVALUATE the challenges of Rural marketing research with different approaches and tools</li> <li>6. CREATE a new consumer behavior model on the rural consumer with the help of cases with rural marketing experiences</li> </ol>  |



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| 404 MKT | Marketing Strategy                | Subject Core (SC) Course     | <ol style="list-style-type: none"> <li>1. DISCOVER perspectives of market strategy.</li> <li>2. UNDERSTAND the intricacies of competitive marketing situations and ways to handle each situation.</li> <li>3. "BUILD a market strategy through integrating concepts like product life cycle, adoption, and segmentation, branding, pricing, distribution, and market communication."</li> <li>4. "ANALYSE a company's current situation through applying internal and external analyses."</li> <li>5. EXPLAIN alternative ways to measure the outcome of market strategies.</li> <li>6. CREATE Corporate Advantage by exploring how the scope of firms is influenced by resources that are shared across products.</li> </ol>                  |
| 409 MKT | Customer Relationship Management  | Subject Elective (SE) Course | <ol style="list-style-type: none"> <li>1. DEFINE and DESCRIBE basic concepts and theories related to CRM.</li> <li>2. "UNDERSTAND and EXPLAIN key concepts and theories associated with CRM."</li> <li>3. APPLY and ILLUSTRATE principles, theories and models of CRM in B2B and B2C markets</li> <li>4. "CLASSIFY Customer acquisition and retention strategies and ANALYZE Customer database in CRM."</li> <li>5. EVALUATE suitability and effectiveness of CRM strategies in specific marketing situation.</li> <li>6. DEVELOP CRM strategies/plans for various B2B and B2C markets.</li> </ol>   |
| 412 MKT | Retail Marketing                  | Subject Elective (SE) Course | <ol style="list-style-type: none"> <li>1. DEFINE various concepts associated with retail marketing.</li> <li>2. EXPLAIN the terms and concepts used in Retail Marketing</li> <li>3. ILLUSTRATE value creation &amp; competitive advantage in Retail Marketing.</li> <li>4. ANALYZE the contemporary issues affecting Retail marketing decisions</li> <li>5. EVALUATE the effectiveness of Retail marketing mix used by different Retail formats</li> <li>6. FORMULATE effective retail marketing strategy</li> </ol>   |
| 403 FIN | Financial Laws                    | Subject Core (SC) Course     | <ol style="list-style-type: none"> <li>1. Define and Describe the basic concepts related to Financial Laws.</li> <li>2. "Illustrate the implications of various laws, Explain concepts and details of various financial laws."</li> <li>3. Make use of contextual financial laws applicable to organisations.</li> <li>4. Infer the application of financial laws to organisations</li> <li>5. Appraise and perceive the benefits of applicable laws to the organisations.</li> </ol>  |
| 404 FIN | Current Trends & Cases in Finance | Subject Core (SC) Course     | <ol style="list-style-type: none"> <li>1. DESCRIBE the concepts related to emerging areas of Microfinance, Small finance banks, Payment Banks, Start-Ups, SHG and Digitization and analytics</li> <li>2. EXPLAIN in detail, all the theoretical concepts taught through the syllabus</li> <li>3. APPLY the various theories and models of financial management in the case.</li> <li>4. "ANALYZE the situation and decide the key financial as well as non-financial elements involved in the situation."</li> <li>5. EVALUATE the financial impact of the alternative on the given case.</li> </ol>   |
| 411 FIN | Risk Management                   | Subject Elective (SE) Course | <ol style="list-style-type: none"> <li>1. Describe various concept associated with risk management and financial risk management</li> <li>2. Exemplify the financial risk management processes, frameworks.</li> <li>3. Determine the various building blocks of risk management system and strategies.</li> <li>4. Classify various risks associated with enterprise, banks, insurance etc.</li> <li>5. "Formulate the strategies to overcome with currency risk, credit risk, interest rate risk, legal risk, asset liability risk, liquidity risk etc."</li> </ol>  |
| 412 FIN | Strategic Cost Management         | Subject Elective (SE) Course | <ol style="list-style-type: none"> <li>1. "Remember the basic concepts, tools and techniques of cost management in the contemporary business environment and how it has influenced cost management"</li> <li>2. EXPLAIN in detail, all the theoretical concepts taught through the syllabus; differentiate between various costing techniques.</li> <li>3. "ILLUSTRATE contemporary management techniques and how they are used in cost management to respond to the contemporary business environment."</li> <li>4. ANALYZE situation &amp; decide the key cost factors/elements involved in the decision making</li> <li>5. FORMULATE new models and techniques for managing the cost strategically in any business organization.</li> </ol> |



|         |  |                                   |   |
|---------|--|-----------------------------------|---|
| 402     | Indian Ethos & Business Ethics                   | Compulsory Generic Core Course    | <ol style="list-style-type: none"> <li>1. DESCRIBE major theories, concepts, terms, models and framework of Indian ethos and business ethics. DISCOVER the contemporary Issues in Business Ethics</li> <li>2. "CLASSIFY and RECOGNIZE Karma, Karma Yoga and discover its relevance in business setting. ILLUSTRATE the business ethical decision rationale derived from Indian Heritage Scriptures."</li> <li>3. APPLY Principles, Theories, Models and Framework of Indian ethos and business ethics in order to incorporate value system in work culture and work place.</li> <li>4. DEVELOP and EXHIBIT analytical, problem solving skills, and work ethos by COMPREHENSION and PRACTICE of Indian ethos and value system</li> <li>5. "IMPLEMENT, EVALUATE, and FACILITATE ethical business behavior and promote sustainable business ecology, improve profitability, foster business relation and employee productivity."</li> <li>6. "ELABORATE Ethical dilemmas in different business areas of marketing, HRM and Finance and ADAPT dilemma resolution interventions by referring to certain norms, theories and models of Eastern Management."</li> </ol>  |
| 405     | Global Strategic Management                      | Generic Elective University Level | <ol style="list-style-type: none"> <li>1. Define the concept and key terms associated with the global strategic management.</li> <li>2. Describe in detail global strategic alliance, merger and acquisitions.</li> <li>3. Demonstrate various global organisation models in global strategic management context.</li> <li>4. "Examine various entry and business-level strategies from global strategic management prospective."</li> <li>5. Explain globalization, innovation, and sustainability and challenges to strategic management.</li> <li>6. Design global strategies and understand their relative merits and demerits.</li> </ol>  |
| 408     | Corporate Social Responsibility & Sustainability | Generic Elective University Level | <ol style="list-style-type: none"> <li>1. Enumerate the different concepts, legislative provisions, environmental aspects, best practices, complexity, scope, reports, social framework etc. related to CSR, business ethics &amp; sustainability development.</li> <li>2. "Compare different CSR theories, cases, dimensions of Sustainability and demonstrate a multi stake holder perspective in viewing CSR, Business ethics &amp; Sustainability issues etc."</li> <li>3. "Apply the different models, theories, approaches, cases etc. for implementation &amp; monitoring of CSR activities &amp; Sustainability and its impact on corporate culture &amp; society at large."</li> <li>4. "Analyze the different reports, cases, various legal issues relating to CSR, different sustainability reports and various national and global initiatives related to CSR, Business ethics &amp; Sustainability."</li> <li>5. "Evaluate the level of commitment of different organizations to CSR, Business ethics in attaining Sustainability development &amp; show its competitive advantages."</li> <li>6. Create &amp; Implement a CSR policy in attaining Sustainability development and its impact on various stakeholders.</li> </ol> |
| 403 MKT | Marketing 4.0                                    | Subject Core (SC) Course          | <ol style="list-style-type: none"> <li>1. DESCRIBE the various concepts associated with Marketing 4.0</li> <li>2. EXPLAIN the importance of 5A's in Marketing 4.0.</li> <li>3. "DEMONSTRATE the application of concepts of digital marketing, new productivity metrics, Human centric marketing, Omni channel marketing to the real world of digital economy"</li> <li>4. "DISTINGUISH between traditional and digital marketing practices in given real world context to be the effective marketers."</li> <li>5. ASSESS how Technology &amp; connectivity has changed human life and business in the context of real-world commodities, products &amp; services.</li> <li>6. DEVELOP strategies to create WOW! Moments with customer engagement</li> </ol>  |



|          |   |                              |   |
|----------|---|------------------------------|---|
| 403 HR   | Organizational Diagnosis & Development              | Subject Core (SC) Course     | <ol style="list-style-type: none"> <li>1. "DESCRIBE the major theories, concepts, terms, models tools and frameworks in the field of Organizational Diagnosis &amp; Development."</li> <li>2. UNDERSTAND concept of OD and 'intervention'.</li> <li>3. "MAKE USE of the Theories, Models, Principles and Frameworks of Organizational Diagnosis &amp; Development inspecific organizational settings."</li> <li>4. "ANALYZE the external and internal environment with right tool of diagnosis and review the role of consultant in OD."</li> <li>5. IDENTIFY AND MAP an intervention to organisational need</li> <li>6. DESIGN the role of the consultant for an organisational issue</li> </ol> |
| 404 HR   | Current Trends & Cases in Human Resource Management | Subject Core (SC) Course     | <ol style="list-style-type: none"> <li>1. "DESCRIBE the conceptual framework of Digital Disruptions and its impact on the current HR Trends."</li> <li>2. SUMMARIZE the impact of Current HR trends on HR Functions</li> <li>3. "ILLUSTRATE value creation &amp; competitive advantage of Technology on current HR Trends"</li> <li>4. EXAMINE the changing role of HR Priorities</li> <li>5. ELABORATE upon the various types of current HR Trends</li> <li>6. "APPLY the existing Tech tools to real time HRM Challenges and offer Solutions."</li> </ol>   |
| 410 HR   | Designing HR Policies                               | Subject Elective (SE) Course | <ol style="list-style-type: none"> <li>1. IDENTIFY important points to be incorporated in HR Manual</li> <li>2. UNDERSTAND policy requirement for Recruitment &amp; Selection process</li> <li>3. PREPARE policies on employee benefits for an organization of your choice</li> <li>4. ILLUSTRATE steps involved in better employee relations &amp; grievance handling</li> <li>5. CONSTRUCT various HR policies for an organization of your choice</li> </ol>  |
| 412 HR   | Best Practices In HRM                               | Subject Elective (SE) Course | <ol style="list-style-type: none"> <li>1. DEFINE dynamic approach towards Human Resource activities and practices.</li> <li>2. EXPLAIN theoretical framework for best practices.</li> <li>3. IDENTIFY &amp; CLASSIFY the practices according to the industry and sub sectors of the industry.</li> <li>4. COMPARE and DETERMINE various skill sets required at Human Resource Section.</li> <li>5. PLAN a survey of various industry and DEVELOP a trend analysis of Human Resource Best Practices.</li> </ol>  |
| 403 OSCM | E Supply Chains and Logistics                       | Subject Core (SC) Course     | <ol style="list-style-type: none"> <li>1. DESCRIBE the structure of modern days Logistics.</li> <li>2. EXPLAIN the key concepts of Supply Chain Management and the – driving forces in contemporary Supply Chain Management.</li> <li>3. "IDENTIFY the various flows in real world supply chains and Logistics. IDSCRIBE the importance of documentations."</li> <li>4. "COMPARE and CONTRAST push and pull strategies in Supply Chain Management. ANALYSE the impact of tracking system linkage in Logistics."</li> <li>5. EXPLAIN the key Operational Aspects of E Procurement.</li> <li>6. DEVELOP a framework for e-logistics</li> </ol>  |
| 404 OSCM | Industry 4.0  | Subject Core (SC) Course     | <ol style="list-style-type: none"> <li>1. DEFINE industrial revolutions and its different aspects.</li> <li>2. EXPLAIN the role of technology pillars of Industry 4.0.</li> <li>3. DEMONSTRATE the use of data in effective decision making.</li> <li>4. "ILLUSTRATE the need of cyber physical system for sustainable competitive advantage."</li> <li>5. EXPLAIN the challenges faced by various industries in full fledge implementation of Industry 4.0</li> <li>6. DEVELOP a framework for any organization using base of Smart Industry Readiness Index Proposed by Singapore EDB</li> </ol>  |





|                    | <b>Program Name: MCA</b>             | <b>Year 2022-23</b>  |
|--------------------|--------------------------------------|--|
|                    | <b>MCA (2020 Pattern)</b>            |  |
|                    | <b>Semester I</b>                    |  |
| <b>Course Code</b> | <b>Course Name</b>                   | <b>Course Outcome</b>  |
| IT-11              | Java Programming                     | CO1: Understand Basic Concepts of OOPs, Java, Inheritance, Package. (Understand)<br>CO2: Understand Exception handling, arrays and Strings and multi-threading in Java (Understand.)<br>CO3: Understand collection framework (Understand)<br>CO4: Develop GUI using Abstract Windows Toolkit (AWT) and event handling (Apply)<br>CO5: Develop Web application using JSP and Servlet, JDBC (Apply)  |
| IT-12              | Data Structure and Algorithms        | CO1: demonstrate linear data structures linked list, stack and queue (apply)<br>CO2: implement tree, graph, hash table and heap data structures (apply)<br>CO3: apply brute force and backtracking techniques (apply)<br>CO4: demonstrate greedy and divide-conquer approaches (apply)<br>CO5: implement dynamic programming technique (apply)   |
| IT-13              | Object Oriented Software Engineering | CO1: Distinguish different process model for a software development. (Understand)<br>CO2: Design software requirements specification solution for a given problem definitions of a software system. (Analyze)<br>CO3: Apply software engineering analysis/design knowledge to suggest solutions for simulated problems (Analyze)<br>CO4: Design user interface layout for different types of applications (Apply)<br>CO5: Recognize and describe current trends in software engineering (Understand) |
| IT-14              | Operating Systems Concepts           | CO1: Understand structure of OS, process management and synchronization. (Understand)<br>CO2: Understand multicoe and multiprocessing OS. (Understand)<br>CO3: explain Realtime and embedded OS (Understand)<br>CO4: understand Windows and Linux OS fundamentals and administration. (Understand)<br>CO5: solve shell scripting problems (Apply)  |
| IT-15              | Network Technologies                 | CO1: Understand the basic concepts of Computer Network, and principle of layering (Understand)<br>CO2: Apply the error detection and correction techniques used in data transmission (Apply)<br>CO3: Apply IP addressing schemes and sub netting (Apply)<br>CO4: Understand the concept of routing protocols, Application layer protocols & Network Security (Understand)<br>CO5: Apply the socket programming basics to create a simple chat application (Apply)                                    |
| IT-11L             | Practicals                           | CO1: Demonstrate Collection framework (Apply)<br>CO2: Develop GUI using awt and swing (Apply)<br>CO3: Develop Web application using JSP and Servlet, JDBC (Apply)<br>CO4: Apply Data Structure to solve problems using JavaScript (Apply)  |
| OS-1               | Wordpress                            | CO1: Understand Wordpress as a content management system (CMS) (Understand)<br>CO2: Understand Web pages, Images, Themes, Widgets, Admin panel etc (Understand)<br>CO3: Understand users and roles in wordpress admin panel (Understand)<br>CO4: Develop a wordpress website (Apply)<br>CO5: Using social media links, forms, blogs in wordpress site (Apply)  |
| OS-1               | Gsuite                               | CO1: Understand Gsuite applications (Understand)<br>CO2: Understand Fetures in Google classroom , Google meet, Google calendar, Goog,le docs etc (Understand)<br>CO3: Develop Google Calendar (Apply)<br>CO 4 : Submit assignments , Forms etc in google classroom (Apply)   |
| ITC11              | Mini Project                         | CO1: Create working project using tools and techniques learnt in this semester (Create)  |



|          |  |                              |  |
|----------|--|------------------------------|--|
| 406 RABM | Rural Marketing II                               | Subject Elective (SE) Course | <ol style="list-style-type: none"> <li>1. DESCRIBE the key terms associated with the Strategies of marketing.</li> <li>2. COMPARE and CONTRAST various approaches to pricing for a real world marketing offering in both rural and urban markets</li> <li>3. DEMONSTRATE an understanding of Framework of IMC</li> <li>4. EXAMINE the various distribution Strategies of a real-world marketing offering</li> <li>5. EXPLAIN the rising organized rural retailing, malls &amp; Government initiatives</li> <li>6. DESIGN the Promotion Strategy in rural marketing</li> </ol>  |
| 404 BA   | Artificial Intelligence in Business Applications | Subject Core (SC) Course     | <ol style="list-style-type: none"> <li>1. IDENTIFY KNOWLEDGE associated and represent it by logical sequence and plan a strategy to solve given problem</li> <li>2. UNDERSTAND AI's fundamental concepts and methods.</li> <li>3. APPLY various machine learning algorithms on structured data to develop machine learning models.</li> <li>4. ACQUIRE advanced Data ANALYSIS SKILLS through algorithm and search processes.</li> <li>5. SELECT logical and functional process to develop the model</li> <li>6. CREATE SOLUTIONS for various business problems using AI techniques.</li> </ol>   |
| 409 BA   | E Commerce Analytics - II                        | Subject Elective (SE) Course | <ol style="list-style-type: none"> <li>1. DESCRIBE the key concepts in e-commerce analytics.</li> <li>2. DEMONSTRATE the use of analytics to drive profitability throughout the organization, and across the entire customer experience and lifecycle.</li> <li>3. "SOLVE the unique problems in e-commerce, and transform data into better decisions and customer experiences."</li> <li>4. DISCOVER high-value insights via dashboards and visualization.</li> <li>5. DEVELOP analytical approaches to improve ecommerce marketing and advertising, understand customer behavior, increase conversion rates, strengthen loyalty, optimize merchandising and product mix, streamline transactions, optimize product mix, and accurately attribute sales.</li> <li>6. FORMULATE the right analytics driven strategy for ecommerce businesses.</li> </ol> |



## Semester II

|        |                                |   |
|--------|--------------------------------|---|
| IT-21  | Python Programming             | CO1: Understand Demonstrate the concepts of python and modular programming (Understand)<br>CO2: Apply the concepts of concurrency control in python (Apply)<br>CO3: Solve the real-life problems using object-oriented concepts and python libraries (Apply)<br>CO4: Demonstrate the concept of IO, Exception Handling, database (Apply)<br>CO5: Analyze given dataset & apply the data analysis concepts & data visualization, (Analyze)   |
| IT-22  | Software Project Management    | CO1: Understand the process of Software Project Management Framework and Apply estimation techniques. (Apply)<br>CO2: Learn the philosophy, principles and lifecycle of an agile project. (Understand)<br>CO3: Demonstrate Agile Teams and Tools and Apply agile project constraints and trade-offs for estimating project size and schedule (Apply)<br>CO4: Explain Project Tracking and Interpretation of Progress Report (Understand)<br>CO5: Analyze Problem statement and evaluate User Stories (Analyze)                                |
| MT-21  | Optimization Techniques        | CO1: Understand the role and principles of optimization techniques in business world (Understand)<br>CO2: Demonstrate specific optimization technique for effective decision making (Apply)<br>CO3: Apply the optimization techniques in business environments (Apply)<br>CO4: Illustrate and infer for the business scenario (Analyze)<br>CO5: Analyze the optimization techniques in strategic planning for optimal gain. (Analyze)   |
| IT-23  | Advanced Internet Technologies | CO1: Outline the basic concepts of Advance Internet Technologies (Understand)<br>CO2: Design appropriate user interfaces and implements webpage based on given problem Statement (Apply)<br>CO3: Implement concepts and methods of NodeJS (Apply)<br>CO4: Implement concepts and methods of Angular (Apply)<br>CO5: Build Dynamic web pages using server-side PHP programming with Database Connectivity (Apply)  |
| IT-24  | Advanced DBMS                  | CO1: Describe the core concepts of DBMS and various databases used in real applications (Understand)<br>CO2: Design relational database using E-R model and normalization (Apply)<br>CO3: Demonstrate XML database and nonprocedural structural query languages for data access (Apply)<br>CO4: Explain concepts of Parallel, Distributed and Object-Oriented Databases & their applications (Understand)<br>CO5: Apply transaction management, recovery management, backup and security – privacy concepts for database applications (Apply) |
| IT-21L | Practicals                     | CO1: Implement python programming concepts for solving real life problems. (Apply)<br>CO2: Implement Advanced Internet Technologies (Apply)   |
| OS- 3  | Big Data Analytics             | CO1 :Understand Big Data, characteristics and in the real world<br>CO2 : Understand applications ogf Big Data<br>CO3 :Understand big data technologies  |
| OS- 4  | Aptitude Training I            | CO1 :Understand and practice quantitative aptitude<br>CO2 :Understand and practice Logical reasoning<br>CO3 :Understand and practice verbal reasoning<br>CO4 :Understand different placement practice techniques  |
| ITC21  | Mini Project                   | CO1: Create working project using tools and techniques learnt in this semester (Create)   |

## Semester III

|       |                                  |  |
|-------|----------------------------------|--|
| IT-31 | Mobile Application Development   | CO1: Understand Various Mobile Application Architectures. (Understand)<br>CO2: Apply different types of widgets and Layouts. (Apply)<br>CO3: Describe Web Services and Web Views in mobile applications. (Understand)<br>CO4: Implement data storing and retrieval methods in android. (Apply)<br>CO5: Demonstrate Hybrid Mobile App Framework. (Apply)  |
| IT-32 | Data Warehousing and Data Mining | CO1: Understand Data warehouse concepts, architecture and models (Understand)<br>CO2: Learn and understand techniques of preprocessing on various kinds of data (Understand)<br>CO3: Apply association Mining and Classification Techniques on Data Sets (Apply)<br>CO4: Apply Clustering Techniques and Web Mining on Data Sets (Apply)<br>CO5: Understand other approaches of Data mining (Understand) |
| IT-33 | Software Testine and Quality     | CO1: Understand the role of software quality assurance in contributing to the efficient delivery of  |



|                    |  |   |
|--------------------|--|---|
|                    | Assurance  | software solutions. (Understand)<br>CO2: Demonstrate specific software tests with well-defined objectives and targets. (Apply)<br>CO3: Apply the software testing techniques in commercial environments. (Apply)<br>CO4: Construct test strategies and plans for software testing. (Analyze)<br>CO5: Demonstrate the usage of software testing tools for test effectiveness, efficiency & coverage (Apply)                                    |
| IT-34              | Knowledge Representation and Artificial Intelligence: ML, DL | CO1: Understand basic building block of Artificial Intelligence and Knowledge Representation. (Understand)<br>CO2: Apply Propositional Logic for knowledge representation. (Apply)<br>CO3: Design various models based on Machine Learning methodology (Apply)<br>CO4: Design various models based on Deep Learning methodology (Apply)<br>CO5: Understand various hardware and software aspect used for AI and its application. (Understand) |
| IT-35              | Cloud Computing  | CO1: Describe the concepts of Cloud Computing and its Service Models & Deployment Models. (Understand)<br>CO2: Classify the types of Virtualization. (Understand)<br>CO3: Describe the Cloud Management and relate Cloud to SOA. (Understand)<br>CO4: Interpret Architecture and Pharell Programing of Cloud Computing. (Apply)<br>CO5: Demonstrate practical implementation of Cloud computing. (Apply)                                      |
| <b>Semester IV</b> |  |   |
| IT-41              | DevOps   | CO1: describe the evolution of technology & timeline (Understand)<br>CO2: explain Introduction to various Devops platforms (Remember)<br>CO3: demonstrate the building components / blocks of Devops and gain an insight of the Devops Architecture. (Understand)<br>CO4: apply the knowledge gain about Devops approach across various domains (Apply)<br>CO5: build DevOps application (Apply)  |
| BM-41              | PPM and OB   | CO1: Describe and analyze the interactions between multiple aspects of management. (Understand)<br>CO 2: Analyze the role of planning and decision making in Organization (Analyze)<br>CO 3: Justify the role of leadership qualities, Motivation and Team Building. (Analyze)<br>CO 4: Analyze stress management and conflict management (Analyze)<br>CO 5: Describe Personality and Individual Behavior (Understand)                        |
| ITC41              | Project  | CO1: Create working project using tools and techniques learnt in the programme (Create)   |



## Skills Development Component

**The University has prescribed separate 4 credit weightage on skill development.**

| Sr.No. | Course Code | Course Name   | Course Outcomes  |
|--------|-------------|---|--|
| 1      | NA          | Soft skills<br>(Offered in Semester II)                     | <ol style="list-style-type: none"> <li>To Strengthen grammatical base of English communication</li> <li>To improve oral and spoken communication in different situations</li> <li>Improve and refine non-verbal and written English communication skills</li> <li>Build and practice good presentation skills</li> <li>To understand and build telecommunication and electronic communication skills</li> <li>To introduce self-management and team management concepts</li> </ol> |
| 2      | NA          | Corporate Social Responsibility<br>(Offered in Semester IV) | <ol style="list-style-type: none"> <li>To develop an understanding for corporate citizenship and sustainability from business perspective.</li> <li>To learn how to strategically manage CSR within your organization.</li> <li>To understand how to improve your company's sustainability performance</li> </ol>  |

**The University has also introduced additional courses on Human Rights and Cyber Security**

| Sr.No. | Course Code | Course Name  | Course Outcomes   |
|--------|-------------|--|---|
| 1      | 191         | Human Rights Education I-<br>Introduction to Human Rights and Duties<br>(Semester I)     | <ol style="list-style-type: none"> <li>To introduce basic concepts of Human Rights</li> <li>To understand perspectives of rights and duties</li> <li>To introduce terminology of various legal instruments</li> <li>To introduce history of human rights</li> <li>To know provisions in United Nations Charters</li> <li>To know various rights, duties, limitations and final provisions.</li> </ol>   |
| 2      | 291         | Human Rights II-<br>Human rights of vulnerable and disadvantaged groups<br>(Semester II) | <ol style="list-style-type: none"> <li>To introduce basic concepts</li> <li>To know about International and national standards of human rights of women and children.</li> <li>To learn various concepts and provisions related to socially and economically disadvantaged and vulnerable groups</li> <li>To know human rights in Indian Context, enforcement</li> <li>To understand Human rights violation and Indian Polity</li> <li>To understand role of advocacy groups</li> </ol> |
| 3      | 192         | Cyber Security I-<br>Pre-requisites in Information and Network Security<br>(Semester I)  | <ol style="list-style-type: none"> <li>To understand basic networking concepts</li> <li>To understand information security concepts</li> <li>To understand security threats and vulnerabilities</li> <li>To understand concepts of cryptography and encryption</li> </ol>   |



| Sr.No. | Course Code | CourseName  | CourseOutcomes   |
|--------|-------------|---|--|
| 4      | 292         | CyberSecurityII-<br>Pre-requisitesin<br>InformationandNetwork<br>Security(SemesterII) | 1. Tointroducesecuritymanagementpractices<br>2. Tounderstandsecuritylaws,IJR<br>3. Tounderstandsecuritystandards<br>4. Toknowconceptsofsecurityaudit   |
| 5      | 392         | Cyber Security III-<br>InformationandNetwork<br>Security<br>(SemesterIII)             | 1. Tounderstandusermanagementandaccesscontrol<br>2. Tounderstandconceptandtypesoffirewalls<br>3. TounderstandVPNandmultimediametworkssecurity<br>4. Toknowvariouscomputingplatforms<br>5. Tounderstandcloudtechnologyandsecurity |
| 6      | 492         | Cyber Security IV -<br>SystemandApplication<br>Security<br>(SemesterIV)               | 1. TounderstandSecurityArchitecturesandModels<br>2. Toknowsystemsecurity-desktop,email,web,database<br>3. TounderstandOSsecurity<br>4. Tounderstandwirelessnetworksandsecurity   |



  
 Director  
 Dr. Moonje Institute  
 Nashik

