Program Outcomes - MBA

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

MBA (2019 Pattern)

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 ofprinciples and frameworks of management and allied domains to the solutions of real-world complex businessissues

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 qualitativeproblem solving tools and techniques.

3. Critical Thinking - Ability to conduct investigation of multidimensional business problems using research basedknowledge and research methods to arrive at data driven decisions

4. Effective Communication - Ability to effectively communicate in cross-cultural settings, in technology mediatedenvironments, especially in the business context and with society at large

5. Leadership and Team Work - Ability to collaborate in an organizational context and across organizationalboundaries and lead themselves and others in the achievement of organizational goals and optimize outcomes forall stakeholders.

6. Global Orientation and Cross-Cultural Appreciation: Ability to approach any relevant business issues from a globalperspective and exhibit an appreciation of Cross Cultural aspects of business and management.

7. Entrepreneurship - Ability to identify entrepreneurial opportunities and leverage managerial & leadership skillsfor 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 andassess the impact of managerial decisions and business priorities on the societal, economic and environmentalaspects.

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

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

ProgramOutcomes-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.

MCA (2019 Pattern)

13) **Problem Analysis** - Identify, formulate, research literature, and solve complex computing problems reaching substantiated conclusions using fundamental principles of math sciences,and relevant domain disciplines

14) **Design Development of Solutions** - Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet appropriate consideration for public health and safety, cultural, societal, and environmental considerations

15) **Modern Toolusage** - Create, select, adapt and apply appropriate techniques, resources, and modern computing tools to complex computing activities , with an understanding.

16) **Life Long learning** - Recognise the need, and have the ability, to engage in independent learning for continual development as a computing professional.

17) **Project Management and Finance** - Demonstrate knowledge and understanding of the computing and management principles and apply these to one's own work, as a mem manage projects and in multidisciplinary environments.

18) **Individual and Team Working** - Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary environments.

19) **Professional Ethics** - Understand and commit to professional ethics and cyber regulations, responsibilities, andnorms of professional computing practices.

20) **Multi-Disciplinary Ability** - Demonstrate knowledge and ability to work in different domains and disciplines including non-development / operational IT work

MCA (2015 Pattern)

➢ **PO1**: To cater to the challenging opportunities being faced in Information Technology by Holistic development of the students.

➢ **PO2**: To develop basic and advanced skills in areas of student interest thereby increasing their level of expertise through the specialization approach.

➢ **PO3**: To promote the Masters programme in focused areas and result in development of expert skills as per the demands of career opportunities.

➢ **PO4**:To develop general business aptitude by including the functional areas of management in the curriculum

➢ **PO5**:To provide Focused grooming would also make it easier for the IT industry to decide which graduate could be mapped to the right domain

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.

ProgramSpecificOutcomes (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: Todeliverlatest 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. ISACACertifications
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

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CHME Society's
Dr. Moonje Institute of Management and Computer Studies, Nashik
MBA
Pattern 2019
CourseOutcomes (CO)

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Subject Code	Subject Name	Course Type	Course Outcome
SEM 1			
101	Managerial Accounting	Compulsory Generic Core Course	1. DESCRIBE the basic concepts related to Accounting, Financial Statements, Cost Accounting, Marginal Costing, Budgetary Control and Standard Costing 2. EXPLAIN in detail, all the theoretical concepts taught through the syllabus. 3. PERFORM all the necessary calculations through the relevant numerical problems. 4. ANALYSE the situation and decide the key financial as well as non-financial elements involved in the situation. 5. EVALUATE the financial impact of the decision.
102	Organizational Behaviour	Compulsory Generic Core Course	1. DESCRIBE the major theories, concepts, terms, models, frameworks and research findings in the field of organizational behavior. 2. EXPLAIN the implications of organizational behavior from the perspectives of employees, managers, leaders and the organization. 3. MAKE USE OF the Theories, Models, Principles and Frameworks of organizational behavior in specific organizational settings. 4. DECONSTRUCT the role of individual, groups, managers and leaders in influencing how people behave and in influencing organizational culture at large. 5. FORMULATE approaches to reorient individual, team, managerial and leadership behaviourinorder to achieve organizational goals 6. ELABORATE UPON the challenges in shaping organizational behavior, organizational culture and organizational change.
103	Economic Analysis for Business Decisions	Compulsory Generic Core Course	1. DEFINE the key terms in micro-economics. 2. EXPLAIN the key terms in micro-economics, from a managerial perspective. 3. IDENTIFY the various issues in an economics context and DEMONSTRATE their significance from the perspective of business decision making. 4. EXAMINE the inter-relationships between various facets of micro-economics from the perspective of a consumer, firm, industry, market, competition and business cycles. 5. DEVELOP critical thinking based on principles of micro-economics for informed business decision making.

			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.
104	Business Research Methods	Compulsory Generic Core Course	1. DEFINE various concepts & terms associated with scientific business research.
			2. EXPLAIN the terms and concepts used in all aspects of scientific business research.
			3. MAKE USE OF scientific principles of research to SOLVE contemporary business research problems.
			4. EXAMINE the various facets of a research problem and ILLUSTRATE the relevant aspects of the research process from a data driven decision perspective.
			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.
			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
105	Basics of Marketing	Compulsory Generic Core Course	1. RECALL and REPRODUCE the various concepts, principles, frameworks and terms related to the function and role of marketing.
			2. DEMONSTRATE the relevance of marketing management concepts and frameworks to a new or existing business across wide variety of sectors and ILLUSTRATE the role that marketing plays in the 'tool kit' of every organizational leader and manager.
			3. APPLY marketing principles and theories to the demands of marketing function and practice in contemporary real world scenarios.
			4. EXAMINE and LIST marketing issues pertaining to segmentation, targeting and positioning, marketing environmental forces, consumer buying behavior, marketing mix and Product Life Cycle in the context of real world marketing offering (commodities, goods, services, e-products/ e-services).
			5. EXPLAIN the interrelationships between segmentation, targeting and positioning, marketing environment, consumer buying behavior, marketing mix and Product Life Cycle with real world examples.
			6. DISCUSS alternative approaches to segmentation, targeting and positioning, the marketing environment, consumer buying behavior, marketing mix and Product Life Cycle in the context of real world marketing offering (commodities, goods, services, e-products/ e- services.).
106	Digital Business	Compulsory Generic Core Course	1. DESCRIBE the conceptual framework of e commerce, mobile commerce and social commerce.
			2. SUMMARIZE the impact of information, mobile, social, digital, IOT and related technologies on society, markets & commerce.
			3. ILLUSTRATE value creation & competitive advantage in a digital Business environment.
			4. EXAMINE the changing role of intermediaries, changing nature of supply chain and payment systems in the online and offline world.
			5. ELABORATE upon the various types of digital business models and OUTLINE their benefits and limitations.
			6. DISCUSS the various applications of Digital Business in the present day world.
107	Management Fundamentals	Generic Elective – University	1. ENUMERATE various managerial competencies and approaches to management.
			2. EXPLAIN the role and need of Planning, Organizing, Decision Making and Controlling

		Level	3. MAKE USE OF the principles of goal setting and planning for simple as well as complex tasks and small projects.
			4. COMPARE and CONTRAST various organizational structures of variety of business and not-for-profit entities in a real world context
			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.
			6. FORMULATE and DISCUSS a basic controlling model in a real life business, startup and not-for-profit organizational context.
109	Entrepreneurship Development	Generic Elective – University Level	1. DEFINE the key terms, LIST the Attributes and Characteristics of Entrepreneurs features and ENUMERATE the Factors influencing Entrepreneurship Growth.
			2. DISCUSS various theories of entrepreneurship and the entrepreneurship development ecosystem in Indian context.
			3. APPLY the theories of entrepreneurship and entrepreneurship development framework to analyze and identify entrepreneurial opportunities.
			4. DISCRIMINATE between potential options available for entrepreneur for embarking on establishing a Start Up
			5. EVALUATE the startup ecosystem and the entrepreneurial opportunities in light of requirements of a business plan.
			6. CREATE a business plan that captures entrepreneurs and variety of entrepreneur motivations, entrepreneur culture and sectoral opportunities and financing options.
111	Legal Aspects of Business	Generic Elective – University Level	1. DESCRIBE the key terms involved in each Act.
			2. SUMMARIZE the key legal provisions of each Act
			3. ILLUSTRATE the use of the Acts in common business situations.
			4. OUTLINE the various facets of basic case laws of each Act from a legal and managerial perspective.
			5. DEVELOP critical thinking by making judgments related to use of various provisions of the Acts in business situations
113	Verbal Communication Lab	Generic Elective – Institute Level	1. RECOGNIZE the various elements of communication, channels of communication and barriers to effective communication.
			2. EXPRESS themselves effectively in routine and special real world business interactions.
			3. DEMONSTRATE appropriate use of body language
			4. TAKE PART IN professional meetings, group discussions, telephonic calls, elementary interviews and public speaking activities.
			5. APPRAISE the pros and cons of sample recorded verbal communications in a business context.
			6. CREATE and DELIVER effective business presentations, using appropriate technology tools, for common business situations.
115	Selling & Negotiations	Generic Elective – Institute Level	1. DESCRIBE the various selling situations and selling types.
			2. OUTLINE the pre-sales work to be carried out by a professional salesperson.
			3. IDENTIFY the key individuals involved in a real world sales process for a realworld product/ service / e-product / e-service.
			4. FORMULATE a sales script for a real world sales call for a product/ service / eproduct/ e-service.
116	MS Excel	Generic Elective – Institute Level	1. SELECT appropriate menus and functions of MS Excel to Create, Format, Import, Merge, Save, Print Spreadsheets & Charts using business data.

			2. SHOW how to do basic troubleshooting and fix mistakes most people make when working with spreadsheets. 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). 4. ILLUSTRATE the use of the most commonly used data-manipulation commands in MS Excel. 5. DERIVE insights from multiple data sources in MS EXCEL and work with it to answer relevant business questions. 6. CREATE standard Excel Templates for routine business data management and analysis activities.
SEM 2			
201	Marketing Management II	Compulsory Generic Core Course	1. DESCRIBE the key terms associated with the 4 Ps of marketing. 2. COMPARE and CONTRAST various approaches to pricing for a real world marketing offering (commodities, goods, services, e-products/ e-services.) 3. DEMONSTRATE an understanding of various channel options for a real world marketing offering (commodities, goods, services, e-products/ eservices.) 4. EXAMINE the product line of a real world marketing offering (commodities, goods, services, e-products/ e-services.) 5. EXPLAIN the role of various communication mix elements for a real world marketing offering (commodities, goods, services, e-products/ e-services.) 6. DESIGN a marketing plan for a real world marketing offering (commodities, goods, services, e-products/ e-services.)
202	Financial Management II	Compulsory Generic Core Course	1. DESCRIBE the basic concepts related to Financial Management, Various techniques of Financial Statement Analysis, Working Capital, Capital Structure, Leverages and Capital Budgeting. 2. EXPLAIN in detail all theoretical concepts throughout the syllabus 3. PERFORM all the required calculations through relevant numerical problems. 4. ANALYZE the situation and • comment on financial position of the firm • estimate working capital required • decide ideal capital structure • evaluate various project proposals 5. EVALUATE impact of business decisions on Financial Statements, Working Capital, Capital Structure and Capital Budgeting of the firm
203	Human Resources Management II	Compulsory Generic Core Course	1. DESCRIBE the role of Human Resource Function in an Organization 2. ENUMERATE the emerging trends and practices in HRM. 3. ILLUSTRATE the different methods of HR Acquisition and retention. 4. DEMONSTRATE the use of different appraisal and training methods in an Organization. 5. OUTLINE the compensation strategies of an organization 6. INTERPRET the sample job descriptions and job specifications for contemporary entry level roles in real world organizations.

204	Operations & Supply Chain Management	Compulsory Generic Core Course	1. DEFINE basic terms and concepts related to Production, Operations, Services, Supply Chain and Quality Management. 2. EXPLAIN the process characteristics and their linkages with process-product matrix in a real world context. 3. DESCRIBE the various dimensions of production planning and control and their inter-linkages with forecasting. 4. CALCULATE inventory levels and order quantities and MAKE USE OF various inventory classification methods 5. 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. 6. ELABORATE upon different operational issues in manufacturing and services organisations where the decision-making element is emphasized.
207	Contemporary Frameworks in Management	Generic Elective – University Level	1. DEFINE Emotional Intelligence (EQ), IDENTIFY the benefits of emotional intelligence and RELATE the 5 Dimensions of Trait EI Model to the practice of emotional intelligence. 2. DESCRIBE how companies achieve transition from being good companies to great companies, and DISCUSS why and how most companies fail to make the transition. 3. APPLY the 21 laws that make leadership work succesfully to improve your leadership ability and ILLUSTRATE its positive impact on the whole organization. 4. EXAMINE the fundamental causes of organizational politics and team failure. 5. EXPLAIN the approach to being effective in attaining goals by aligning oneself to the "true north" principles based on a universal and timeless character ethic.
209	Start Up and New Venture Management II	Generic Elective – University Level	1. DESCRIBE the strategic decisions involved in establishing a startup. 2. EXPLAIN the decision making matrix of entrepreneur in establishing a startup. 3. IDENTIFY the issues in developing a team to establish and grow a startup 4. FORMULATE a go to market strategy for a startup. 5. DESIGN a workable funding model for a proposed startup. 6. DEVELOP a convincing business plan description to communicate value of the new venture to customers, investors and other stakeholders.
210	Qualitative Research Methods	Generic Elective – University Level	1. ENUMERATE the key terms associated with Qualitative research approach 2. COMPARE and CONTRAST Qualitative research approach with the Quantitative approach 3. CONSTRUCT appropriate research and sampling designs for Qualitative research work in real world business and non-business contexts 4. ILLUSTRATE the use of appropriate qualitative research methods in real world business and non-business contexts. 5. EVALUATE the quality of Qualitative Research work 6. COMBINE Qualitative and Quantitative research approaches in a real world research project
213	Written Analysis and Communication Lab	Generic Elective – University Level	1. DESCRIBE stages in a typical communication cycle and the barriers to effective communication. 2. SUMMARIZE long essays and reports into précis and executive summaries. 3. USE Dictionary and Thesaurus to draft and edit a variety of business written communication. 4. EXAMINE sample internal communications in a business environment for potential refinements. 5. COMPOSE variety of letters, notices, memos and circulars.
205 MKT	Marketing Research II	Subject Core (SC)	1. IDENTIFY and DESCRIBE the key steps involved in the marketing research process.

			2. COMPARE and CONTRAST various research designs, data sources, data collection instruments, sampling methods and analytical tools and SUMMARIZE their strengths & weaknesses.
			3. DEMONSTRATE an understanding of the ethical framework that market research needs to operate within.
			4. ANALYSE quantitative data and draw appropriate Inferences to address a real life marketing issue.
			5. DESIGN a market research proposal for a real life marketing research problem and EVALUATE a market research proposal.
			6. PLAN and UNDERTAKE qualitative or quantitative Market Research and demonstrate the ability to appropriately analyse data to resolve a real
			life marketing issue.
206 MKT	Consumer Behaviour II	Subject Core (SC)	1. ENUMERATE social and psychological factors and their influence his/her behavior as a consumer.
			2. EXPLAIN fundamental concepts associated with consumer and organizational buying behavior.
			3. APPLY consumer behavior concepts to real world strategic marketing management decision making.
			4. ANALYSE the dynamics of human behavior and the basic factors that influence the consumer's decision process.
			5. EXPLAIN the consumer and organizational buying behavior process for a variety of products (goods/services).
			6. DISCUSS the use of the Internet, e-commerce & information technology with respect to the changing consumer marketplace and ELABORATE on the various aspects of the changing Indian Consumer
218 MKT	Product & Brand Management	Subject Elective (SE) Course	1. DEFINE the key concepts and DESCRIBE the elements of a product strategy.
			2. EXPLAIN the process and methods of brand management, including how to establish brand identity and build brand equity.
			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.
			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.
			5. FORMULATE effective branding strategies for real life consumer, business products and services operating in various markets and in the digital space.
			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.
220 MKT	Digital Marketing - I	Subject Elective (SE) Course	1. DEFINE various concepts related to Digital Marketing.
			2. EXPLAIN the role of Facebook, Google Ad words, Youtube and Email in digital marketing.
			3. MAKE USE OF Facebook, Google Ad words, Youtube and Email for carrying out digital marketing of real life products.
			4. ILLUSTRATE the use of Facebook, Google Ad words, Youtube and Email in
205 FIN	Financial Markets and Banking Operations II	Subject Core (SC)	1. RECALL the structure and components of Indian financial system through banking operations & Financial Markets.
			2. UNDERSTAND the concepts of financial markets, their working and importance
			3. ILLUSTRATE the working and contribution of Banks and NBFCs to the Indian Economy.

			4. ANALYZE the linkages in the Financial Markets.
			5. EXPLAIN the various banking and accounting transactions.
			6. DEVELOP necessary competencies expected of a finance professional.
206 FIN	Personal Financial Planning II	Subject Core (SC)	1. UNDERSTAND the need and aspects of personal financial planning 2. Describe the investment options available to an individual 3. IDENTIFY types of risk and means of managing it 4. DETERMINE the ways of personal tax planning 5. EXPLAIN retirement and estate planning for an individual and design a financial plan. 6. CREATE a financial plan for a variety of individuals
217 FIN	Securities Analysis & Portfolio Management II	Subject Elective (SE) Course	1. REMEMBER various concepts taught in the syllabus. 2. EXPLAIN various theories of Investment Analysis and Portfolio Management. 3. CALCULATE risk and return on investment using various concepts covered in the syllabus. 4. ANALYZE and DISCOVER intrinsic value of a security. 5. DESIGN/ CREATE optimal portfolio.
219 FIN	Direct Taxation II	Subject Elective (SE) Course	1. UNDERSTAND various basic concepts/ terminologies related Direct Taxation 2. EXPLAIN how tax planning can be done. 3. ILLUSTRATE how online filling of various forms and returns can be done. 4. CALCULATE Gross Total Income and Income Tax Liability of an individual assessee. 5. ANALYZE and DISCOVER intrinsic value of a security. 6. EVALUATING DESIGN/ DEVELOP / CREATE tax saving plan.
205 HR	Competency Based Human Resource Management II	Subject Core (SC) Course	1. DEFINE the key terms related to performance management and competency development. 2. EXPLAIN various models of competency development. 3. PRACTICE competency mapping. 4. ANALYSE competencies required for present and potential future job roles at various levels and across variety of organizations. 5. DESIGN and MAP their own competency and plan better and appropriate career for themselves. 6. DEVELOP a customized competency model in accordance with the corporate requirements.
206 HR	Employee Relations &Labour Legislation II	Subject Core (SC) Course	1. SHOW awareness of important and critical issues in Employee Relations 2. INTERPRET and relate legislations governing employee relations. 3. DEMONSTRATE an understanding of legislations relating to working environment. 4. OUTLINE the role of government, society and trade union in ER. 5. EXPLAIN aspects of collective bargaining and grievance handling. 6. DISCUSS the relevant provisions of various Labour Legislations.
218 HRM	Lab in Recruitment and Selection II	Subject Elective (SE) Course	1. DESCRIBE the key concepts such as Job Specification, Job description, Recruitment and Selection. 2. COMPARE and CONTRAST various methods of Recruitment and Selection. 3. DEVELOP Job Specifications and Job descriptions in a variety of context. 4. ANALYZE various Personality types. 5. EXPLAIN the profiling techniques used to test Personality, Aptitude, Competency. 6. COMPILE a list of questions for Recruitment and Selection interviews.
219 HRM	Learning and	Subject Elective	1. DESCRIBE the key concepts associated with Learning & Development

Subject Code	Subject Name	Course Type	Course Outcome
	Development	(SE) Course	2. EXPLAIN the training process and the various methods of training for various categories of employees in a variety of organizational contexts. 3. IDENTIFY training needs of various categories of employees in a variety of organizational contexts 4. EXAMINE the impact of training on various organizational and HR aspects. 5. EVALUATE the training process of various categories of employees in a variety of organizational contexts 6. DESIGN a training programme for various categories of employees in a variety of organizational contexts.
205 OSCM	Services Operations Management - I II	Subject Core (SC) Course	1. DESCRIBE the nature and CHARACTERISTICS of services and the services economy. 2. DESRCIBE the service design elements of variety of services. 3. USE service blueprinting for mapping variety of real life service processes. 4. ANALYSE alternative locations and sites for variety of service facilities. 5. JUDGE and EXPLAIN the service orientation at variety of service facilities / organizations. 6. CREATE flow process layouts for variety of services.
206 OSCM	Supply Chain Management II	Subject Core (SC) Course	1. DESCRIBE the key concepts of Supply Chain Management and the – driving forces in contemporary Supply Chain Management. 2. EXPLAIN the structure of modern day supply chains. 3. IDENTIFY the various flows in real world supply chains. 4. COMPARE and CONTRAST push and pull strategies in Supply Chain Management. 5. EXPLAIN the key Operational Aspects in Supply Chain Management. 6. DISCUSS the relationship between Customer Value and Supply Chain Management.
217 OSCM	Planning & Control of Operations II	Subject Elective (SE) Course	1. DESCRIBE the building blocks of Planning & Control of Operations. 2. EXPLAIN the need for aggregate planning and the steps in aggregate planning. 3. MAKE USE OF the various forecasting approaches in the context of operations planning process. 4. ILLUSTRATE how capacity planning is done in organizations and its relationship with MRP. 5. EXPLAIN the importance of scheduling in operations management. 6. CREATE a Bill of Materials.
221 OSCM	Quality Management Standards	Subject Elective (SE) Course	1. DESCRIBE the concepts of Quality and importance of the Quality Management Principles 2. INTERPRET the requirements of ISO 9001:2015 standard. 3. APPLY process based thinking and risk based thinking for managing and improving the functioning of an organization 4. TAKE PART IN planning, conducting and follow-up of QMS audits directed towards maintenance and continual improvements of the QMS 5. DEVELOP skills for Corrective Action Management and Continual Improvement Project management. 6. BUILD stakeholder confidence by managing processes in line with the latest requirements

Subject Code	Subject Name	Course Type	Course Outcome
SEM 3			
301	Strategic Management	Generic Core (GC) Courses	1. DESCRIBE the basic terms and concepts in Strategic Management. 2. EXPLAIN the various facets of Strategic Management in a real world context 3. DESCRIBE the trade-offs within and across strategy formulation, implementation, appraisal 4. INTEGRATE the aspects of various functional areas of management to develop a strategic perspective 5. EXPLAIN the nature of the problems and challenges confronted by the top management team and

			the approaches required to function effectively as strategists 6. DEVELOP the capability to view the firm in its totality in the context of its environment.
302	Decision Science	Generic Core (GC) Courses	1. DESCRIBE the concepts and models associated with Decision Science. 2. UNDERSTAND the different decision-making tools required to achieve optimisation in business processes. 3. APPLY appropriate decision-making approach and tools to be used in business environment. 4. ANALYSE real life situation with constraints and examine the problemsusing different decision-making tools 5. EVALUATE the various facets of a business problem and develop problem solving ability 6. DISCUSS & propose the various applications of decision tools in the present business scenario.
304MKT	Services Marketing	Subject Core (SC) Course	1. RECALL the key concepts in services marketing 2. EXPLAIN the role of Extended Marketing Mix in Services 3. DEMONSTRATE the new Paradigm and Perspectives in Marketing of Services 4. ANALYSE the significance of services marketing in the Indian and global economy 5. EVALUATE Segmentation, Targeting & Positioning of Services in dynamic marketing environment 6. DEVELOP marketing mix for various services offering
305MKT	Sales & Distribution Management	Subject Core (SC) Course	1. DESCRIBE the theoretical concepts related to Sales Management andDistribution Management Domain 2. UNDERSTAND the concepts, techniques and approaches required foreffective decision making in the areas of Sales and Distribution. 3. APPLY the concepts related to sales and distribution management. 4. ANALYZE the real life scenarios of sales and distribution management. 5. EVALUATE the existing sales and distribution strategies and approaches. 6. DEVELOP generate and evaluate sales and distribution strategies.
304FIN	Advanced Financial Management	Subject Core (SC) Course	1. DESCRIBE the basic concepts in financing, investing and profit distribution in a firm 2. EXPLAIN theoretical concepts related to raising and use of funds and value of firm 3. CALCULATE values for making capital structure, investment, liquidity and dividend decisionsin the financial management of a firm 4. ANALYZE the options for making the right financial decisions of a firm 5. ASSESS the role of financial planning, risk analysis in investments, liquidity and credit management policy of the firm on shareholder value 6. DESIGN an appropriate financial strategy using any one or multiple concepts/ techniqueslearned in this course.
305FIN	International Finance	Subject Core (SC) Course	1. Enumerate the key terms associated with International Finance. 2. Summarize the various the concepts related to regulators, financial markets, Financial Instruments, tax structures at international level. 3. Illustrate the role of international monitory systems & intermediaries in Global financial market. 4. Inspect the various parameters of global financial market and interpret best possible international investment opportunities. 5. Determine the various strategies to start investment or business at theinternational level by considering various factors of international finance. 6. Formulate the investment planor business plan by adapting international finance environment.

304HR	Strategic Human Resource Management	Subject Core (SC) Course	1. "REMEMBER the strategies adopted by HR and their implementation issues and challenges faced by the organization in national and international context." 2. "Ability to UNDERSTAND and ARTICULATE the basic concepts of SHRM and link the HR strategies to the organizational business strategies." 3. Ability to ANALYZE HR as an investment to the company. 4. "Ability to INTERPRET and EVALUATE the implementation of the HR strategies." 5. "FORMULATE and provide realistic solutions to the industry by designing innovative strategies and logical decision making."
305HR	HR Operations	Subject Core (SC) Course	1. "DESCRIBE structure of personnel department, its policies and maintenance of employee files & records" 2. LEARN drafting of communications for disciplinary actions 3. "DEMONSTRATE the knowledge and calculations of bonus, gratuity, PF, ESI etc." 4. "EXPERIMEMT to calculate the computation of Workmen compensation, Bonus and Gratuity as per relevant acts" 5. "CALCULATE computation of Workmen compensation, Bonus and Gratuity" 6. "FILE returns under various labour laws and prepare salary structure"
304OSCM	Services Operations Management – II	Subject Core (SC) Course	1. DEFINE the key concepts in Services Operations Management. 2. DIFFERENRTIATE between various service strategies, service quality dimensions, and customer relationships based on life time value. 3. "IDENTIFY the sources of value in a service supply relationship & three factors that drive profitability for a professional service firm" 4. CATEGORIZE a service firm according to its stage of competitiveness. 5. "MODIFY the Service strategies of an organization for achieving the strategic service vision." 6. SOLVE the relevant numerical in the scope of the subject.
305OSCM	Logistics Management	Subject Core (SC) Course	1. DEFINE basic terms and concepts related to Logistics management. 2. EXPLAIN the infrastructure of logistics, its linkage with various types of communication modes. 3. DESCRIBE the various dimensions of logistics management and transport, their inter-linkages with different types of freights. 4. "CALCULATE logistic costs and various classification methods of reducing the cost. Involving the information technology and its impacts." 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. 6. DISCUSS modern real world logistical systems using the various concepts in the syllabus.
307	International Business Environment	Generic Elective University Level	1. Recall and Describe the key concepts of international Business Environment 2. "Understand the relevance of Multinational Corporations (MNCs) in global trade" 3. Demonstrate the significance of FDI and FPI in respect of developing economy 4. Analyze the issues related to Labor, Environmental and Global Value chain 5. Formulate and discuss the case related to various Agreements under WTO and contemporary global business environment.
308	Project Management	Generic Elective University Level	1. DEFINE the key terms and concepts in project management. 2. EXPLAIN the Importance of project management methodologies and tools at the distinct stages in the Project's life cycle 3. ILLUSTRATE the importance of PM in most industries and businesses 4. EXAMINE the importance of Leadership specifically in heterogenous and virtual teams as well as governance and approaches to conflict resolutions 5. DESIGN dashboard, status report and index for Key Performance Indicators of project for the Management

309	Knowledge Management	Generic Elective University Level	1. DEFINE the key terms and concepts in Knowledge Management. 2. DESCRIBE the Knowledge Management cycle 3. DISCUSS the types of Knowledge and its implications. 4. "OUTLINE the importance of capturing knowledge elements and its structures application as a competitive advantage to business" 5. EXPLAIN the human and business aspects of knowledge management.
312 MKT	Business to Business Marketing	Subject Elective (SE) Course	1. "DEFINE the terms and concepts related to Business to Business marketing" 2. EXPLAIN the terms and concepts used in business to business marketing 3. IDENTIFY challenges and opportunities in Business-to-Business Marketing. 4. "FORMULATE segmentation, targeting and positioning, consumer buying behaviour and marketing mix in the context of Business to Business marketing" 5. DESIGN marketing mix elements considering business-to-business sales and service situation 6. DEVELOP marketing plan for business-to-business Marketing situations.
313 MKT	International Marketing	Subject Elective (SE) Course	1. ENUMERATE various terms and key concepts associated with international marketing. 2. EXPLAIN various key concepts used in all aspects of international marketing. 3. APPLY all stages in international marketing management process. 4. "EXAMINE various facets of international marketing environment and the relevant aspects of international marketing management process from a data driven decision perspective." 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. 6. DESIGN appropriate market segmentation, target market, market entry strategies, positioning strategies and international marketing mix strategies for business organizations.
314MKT	Digital Marketing II	Subject Elective (SE) Course	1. DEFINE the key terms and concepts related with digital marketing 2. EXPLAIN various tools of digital marketing. 3. MAKE USE OF various tools of digital marketing. 4. "CLASSIFY the different tools and techniques of digital Marketing with respect to SEO, SEM and SMM to increase the customer acquisition and retention." 5. ASSESS the suitability of Digital Marketing Tools w.r.t. SEO, SEM and SMM to increase cost-effectiveness in specific marketing situations. 6. DEVELOP appropriate digital marketing campaign.
315FIN	Indirect Taxation	Subject Elective (SE) Course	1. Remembering the key concepts of Indirect Taxes in India Identifying and enumerating the various terms associated with GST and other indirect taxes. 2. "Explain how GST works as an Uniform Tax Structure, Illustrate the GST framework of India, & describe the important concepts such as supply, dual taxation method, registration process, etc." 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. 4. "Illustrate the e filling process of GST Categorize the Goods and Services under GST and amount of tax to be paid using Dual tax concept." 5. "Evaluate Input Tax Credit Process, reversal, late filing and New Amendments; appraise various indirect taxes; Interpret the GST framework in India & verify the tax levied on Goods and Services." 6. "Elaborate all Provisions of GST and can correlate with filing of returns; virtual e filling can be done Estimate the GST, TDS, anticipate goods, services, tax payable person for the business."

316FIN	Corporate Financial Restructuring	Subject Elective (SE) Course	1. "DESCRIBE the basic concepts related corporate restructuring, Mergers & Acquisitions, Valuation Aspects of Corporate Restructuring and Corporate Governance Aspects of Restructuring" 2. "EXPLAIN the motivations, decision processes, transaction execution, and valuation consequences of financial, business, and organizational restructuring by corporate units." 3. PERFORM all the required calculations through relevant numerical problems. 4. ANALYZE the situation by calculations of exchange ratio, financial returns, valuations and others. 5. EVALUATE impact of corporate financial restructuring on all stakeholders
317FIN	Financial Modelling	Subject Elective (SE) Course	1. Remember the concepts, terminologies, frameworks, tools and techniques of Financial modeling 2. UNDERSTAND the applications and use of MS Excel in financial modeling and its different techniques 3. DEVELOP, APPLY and actually use core functionality of MS Excel in decision framework to solve managerial problems 4. ANALYSE different financial models in order to eliminate substantial risk of poor spreadsheet coding 5. FORMULATE an idea and acceptable solutions to solve different problems in the area of financial management 6. BUILD financial models by making appropriate assumptions on financial factors relevant to the situation.
313HR	Psychometric testing and Assessment	Subject Elective (SE) Course	1. "KNOW various tools of psychometry designed to measure traits of individuals" 2. "UNDERSTAND & Conduct the group simulated exercises for organizational purpose" 3. IDENTIFY AND ADMINISTER psychometric tools to respondents 4. "INTERPRET results and counsel the respondent based on the results" 5. "CREATE Psychometric Tests for the specific traits as required by the organization"
316HR	Mentoring and Coaching	Subject Elective (SE) Course	1. ENUMERATE various concepts of Mentoring and Coaching. 2. UNDERSTAND techniques of Mentoring and Coaching 3. APPLY models of Mentoring and Coaching to real world scenarios 4. ANALYSE issues in Mentoring and Coaching 5. DEVELOP skills needed to become Mentor, Coach
317HR	Compensation and Reward Management	Subject Elective (SE) Course	1. DESCRIBE concept of compensation and cost 2. UNDERSTAND compensation and reward management process 3. "COMPARE issues related to compensation and survey of wages & salary administration in various industries" 4. "EXPERIMEMT to calculate various types of monetary and profit sharing incentives" 5. "CALCULATE income tax as per the current slabs for the employees under different salary brackets" 6. FORMULATE salary structure incorporating tax saving components.
312OSCM	Manufacturing Resource Planning	Subject Elective (SE) Course	1. DEFINE basic terms and concepts related to MRP II. 2. DESCRIBE the integrated planning structure and functions incorporated within MRP. 3. ILLUSRATE the importance of MRP as a top-management planning tool 4. IDENTIFY the vertical and horizontal cross-functional integration within the MRP II planning hierarchy 5. EXPLAIN how what-if simulation, modeling, and analysis are used to produce feasible plans. 6. DISCUSS how MRP supports the company's cost, quality, and delivery operating objectives.

313OSCM	Sustainable Supply Chains	Subject Elective (SE) Course	1. ENUMERATE the key concepts of Sustainable Supply Chains and Sustainable Supply Chain Management. 2. DESCRIBE and DISCUSS the role and importance of sustainability and sustainable development in different types of supply chains. 3. "IDENTIFY and USE relevant established and emerging principles, frameworks and theories in sustainable logistics and supply chain management." 4. INTEGRATE fundamental strategies, tools and techniques to analyze and design environmentally sustainable supply chain systems. 5. DETERMINE the unsustainable impact of logistics activities, both individual, and in the wider context of the supply chain. 6. "COMPILE the managerial challenges, and FORMULATE a structured solution to these, with clear implications for relevant stakeholders."
316OSCM	Operations & Service Strategy	Subject Elective (SE) Course	1. ENUMERATE the key components of operations strategy. 2. "EXPLAIN the linkages between operations strategy and competitive advantage as the basis of competitive position through superior product development, cost, quality, features." 3. "ILLUSTRATE the broader context of business strategy & fit between manufacturing and operations capabilities and the business strategy" 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." 5. DESIGN the operations and service strategy. 6. "FORMULATE an operations strategy (long-term plan) and link with operational decisions."
312 IB	Cross Cultural Management and Global Leadership	Subject Elective (SE) Course	1. Describe the concept of culture and significance of cross-cultural management 2. Outline the cultural values and differences with dimensions of cultural norms and behaviors 3. Identify various factors affecting culture and decision-making models across cultures 4. Examine theories of leadership with leadership across cultures 5. Explain culturally intelligent leadership in international trade 6. Discuss on leading and managing multicultural teams in international context
304 IB	Import Export Documentation and Procedures	Subject Core (SC) Course	1. "Describe the process of import and export in the context of business" 2. Explain the import and export transactions, classification and various payment terms 3. Identify various types of documents required for the procedures involved in import and export 4. Examine various documentation formats for the import and export processes 5. Explain pre and post activities of import and export process 6. "discuss on various aspects of trades, documentation and procedures for import and export"
304 RABM	Rural Marketing – I	Subject Elective (SE) Course	1. RECALL and REPRODUCE the various concepts, principles, frameworks, and terms related to the function and role of marketing in Rural areas. 2. DISCUSS the Rural versus Urban Marketing concept and ILLUSTRATE the role that marketing plays in the 'tool kit' of a Rural Marketer 3. APPLY the models of consumer behavior in the rural market 4. EXAMINE and LIST different aspects of segmentation, targeting and positioning, marketing environmental forces, consumer buying behavior, in the context of rural marketing 5. EVALUATE the challenges of Rural marketing research with different approaches and tools 6. CREATE a new consumer behavior model on the rural consumer with the help of cases with rural marketing experiences

305 RABM	Agriculture and Indian Economy	Subject Core (SC) Course	1. DEFINE the key terms in Indian Agriculture/Land Reforms/ economic holding. 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. 3. IDENTIFY the various issues in the Agriculture Industry in India. DEMONSTRATE their significance from the perspective of Indian farmer & Indian Economy & business decision making. 4. EXAMINE the inter-relationships between various facets of Agriculture & economy from the perspective of a farmer, Labour, firm, industry, market, competition and business cycles. 5. DEVELOP critical thinking based on changing pattern of ownership and operational holdings in India, Farms size, Productivity/ Profitability and farm efficiency 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.
305 BA	Machine Learning & Cognitive intelligence using Python	Subject Core (SC) Course	1. "DEFINE the key terms in Python, Machine Learning and Cognitive Intelligence" 2. EXPLAIN the applications of Machine Learning in multiple business domains and scenarios 3. DEVELOP a thought process to think like data scientist/business Analyst 4. ANALYSE data using supervised and unsupervised Learning Techniques 5. "SELECT the right functions, arrays of Python for Machine Learning algorithms." 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.
313 BA	Industrial Internet of Things	Subject Elective (SE) Course	1. "ENUMERATE the key concepts of industry 4.0, data science in manufacturing, operations analytics and IIOT" 2. DISCUSS the value added by analytics in the operations function. 3. DEMONSTRATE the practical applications of data analytics and data science in manufacturing operations. 4. "EXAMINE the Industrial Internet of ings (IIoT) and the role of Big Data Analytics." 5. EXPLAIN the applications of analytics in operations. 6. COMPILE the issues pertaining to the adoption of technologies that will shape industry
303 THM	Event Management	Subject Elective (SE) Course	1. DESCRIBE the fundamentals of event management & different types of Events 2. EXPLAIN the concepts of Events & guest requirements to plan an event 3. DESIGN & Budget an event from various perspectives 4. EXAMINE possible shortfalls on an event & create necessary back up systems to avoid failures 5. COMPARE Success of an event in comparison to the set objectives 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."
301 THM	Fundamentals of Hospitality Management	Subject Core (SC) Course	1. DESCRIBE different types of hotels & travel agents 2. "UNDERSTAND the basic functioning of star hotels, major operational, 3. Departments, government rules & regulations" 4. USE of flow charts & diagrams of various Hospitality Sectors to know the hierarchy of the organization 5. EXAMINE current changes taking place in the Hotel & Tourism Industry 6. EVALUATE the changes required to improve traditional methods to suit the current market trends 7. DEVELOP Smart techniques adaptable to the present market scenario for better customer satisfaction
401	Enterprise Performance Management	Compulsory Generic Core Course	1. Enumerate the different parameters & facets of management control of an enterprise. 2. "Illustrate the various techniques of enterprise performance management for varied sectors." 3. Determine the applicability various tools and metrics as a performance evaluation & management tools. 4. Analyse the key financial & non-financial attributes to evaluate enterprise performance. 5. Formulate the various parameters to evaluate enterprise performance effectively through implementation of strategy.

402	Indian Ethos & Business Ethics	Compulsory Generic Core Course	1. DESCRIBE major theories, concepts, terms, models and framework of Indian ethos and business ethics. DISCOVER the contemporary Issues in Business Ethics 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." 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. 4. DEVELOP and EXHIBIT analytical, problem solving skills, and work ethos by COMPREHENSION and PRACTICE of Indian ethos and value system 5. "IMPLEMENT, EVALUATE, and FACILITATE ethical business behavior and promote sustainable business ecology, improve profitability, foster business relation and employee productivity." 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."
405	Global Strategic Management	Generic Elective University Level	1. Define the concept and key terms associated with the global strategic management. 2. Describe in detail global strategic alliance, merger and acquisitions. 3. Demonstrate various global organisation models in global strategic management context. 4. "Examine various entry and business-level strategies from global strategic management prospective." 5. Explain globalization, innovation, and sustainability and challenges to strategic management. 6. Design global strategies and understand their relative merits and demerits.
408	Corporate Social Responsibility & Sustainability	Generic Elective University Level	1. Enumerate the different concepts, legislative provisions, environmental aspects, best practices, complexity, scope, reports, social framework etc. related to CSR, business ethics & sustainability development. 2. "Compare different CSR theories, cases, dimensions of Sustainability and demonstrate a multi stake holder perspective in viewing CSR, Business ethics & Sustainability issues etc." 3. "Apply the different models, theories, approaches, cases etc. for implementation & monitoring of CSR activities & Sustainability and its impact on corporate culture & society at large." 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 & Sustainability." 5. "Evaluate the level of commitment of different organizations to CSR, Business ethics in attaining Sustainability development & show its competitive advantages." 6. Create & Implement a CSR policy in attaining Sustainability development and its impact on various stakeholders.
403 MKT	Marketing 4.0	Subject Core (SC) Course	1. DESCRIBE the various concepts associated with Marketing 4.0 2. EXPLAIN the importance of 5A's in Marketing 4.0. 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" 4. "DISTINGUISH between traditional and digital marketing practices in given real world context to be the effective marketers." 5. ASSESS how Technology & connectivity has changed human life and business in the context of real-world commodities, products & services. 6. DEVELOP strategies to create WOW! Moments with customer engagement

404 MKT	Marketing Strategy	Subject Core (SC) Course	1. DISCOVER perspectives of market strategy. 2. UNDERSTAND the intricacies of competitive marketing situations and ways to handle each situation. 3. "BUILD a market strategy through integrating concepts like product life cycle, adoption, and segmentation, branding, pricing, distribution, and market communication." 4. "ANALYSE a company's current situation through applying internal and external analyses." 5. EXPLAIN alternative ways to measure the outcome of market strategies. 6. CREATE Corporate Advantage by exploring how the scope of firms is influenced by resources that are shared across products.
409 MKT	Customer Relationship Management	Subject Elective (SE) Course	1. DEFINE and DESCRIBE basic concepts and theories related to CRM. 2. "UNDERSTAND and EXPLAIN key concepts and theories associated with CRM." 3. APPLY and ILLUSTRATE principles, theories and models of CRM in B2B and B2C markets 4. "CLASSIFY Customer acquisition and retention strategies and ANALYZE Customer database in CRM." 5. EVALUATE suitability and effectiveness of CRM strategies in specific marketing situation. 6. DEVELOP CRM strategies/plans for various B2B and B2C markets.
412 MKT	Retail Marketing	Subject Elective (SE) Course	1. DEFINE various concepts associated with retail marketing 2. EXPLAIN the terms and concepts used in Retail Marketing 3. ILLUSTRATE value creation & competitive advantage in Retail Marketing. 4. ANALYSE the contemporary issues affecting Retail marketing decisions 5. EVALUATE the effectiveness of Retail marketing mix used by different Retail formats 6. FORMULATE effective retail marketing strategy
403 FIN	Financial Laws	Subject Core (SC) Course	1. Define and Describe the basic concepts related to Financial Laws 2. "Illustrate the implications of various laws, Explain concepts and details of various financial laws." 3. Make use of contextual financial laws applicable to organisations. 4. Infer the application of financial laws to organisations 5. Appraise and perceive the benefits of applicable laws to the organisations.
404 FIN	Current Trends & Cases in Finance	Subject Core (SC) Course	1. DESCRIBE the concepts related to emerging areas of Microfinance, Small finance banks, Payment Banks, Start-Ups, SHG and Digitization and analytics 2. EXPLAIN in detail, all the theoretical concepts taught through the syllabus 3. APPLY the various theories and models of financial management in the case. 4. "ANALYSE the situation and decide the key financial as well as non-financial elements involved in the situation." 5. EVALUATE the financial impact of the alternative on the given case.
411 FIN	Risk Management	Subject Elective (SE) Course	1. Describe various concept associated with risk management and financial risk mnagemen 2. Exemplify the financial risk management processes, frameworks. 3. Determine the various building blocks of risk management system and strategies. 4. Classify various risks associated with enterprise, banks, insurance etc. 5. "Formulate the strategies to overcome with currency risk, credit risk, interest rate risk, legal risk, asset liability risk, liquidity risk etc."
412 FIN	Strategic Cost Management	Subject Elective (SE) Course	1. "Remember the basic concepts, tools and techniques of cost management in the contemporary business environment and how it has influenced cost management" 2. EXPLAIN in detail, all the theoretical concepts taught through the syllabus; differentiate between various costing techniques. 3. "ILLUSTRATE contemporary management techniques and how they are used in cost management to respond to the contemporary business environment." 4. ANALYSE situation & decide the key cost factors/elements involved in the decision making 5. FORMULATE new models and techniques for managing the cost strategically in any business organization.

403 HR	Organizational Diagnosis & Development	Subject Core (SC) Course	1. "DESCRIBE the major theories, concepts, terms, models tools and frameworks in the field of Organizational Diagnosis & Development." 2. UNDERSTAND concept of OD and 'intervention'. 3. "MAKE USE of the Theories, Models, Principles and Frameworks of Organizational Diagnosis & Development inspecific organizational settings." 4. "ANALYZE the external and internal environment with right tool of diagnosis and review the role of consultant in OD." 5. IDENTIFY AND MAP an intervention to organisational need 6. DESIGN the role of the consultant for an organisational issue
404 HR	Current Trends & Cases in Human Resource Management	Subject Core (SC) Course	1. "DESCRIBE the conceptual framework of Digital Disruptions and its impact on the current HR Trends." 2. SUMMARIZE the impact of Current HR trends on HR Functions 3. "ILLUSTRATE value creation & competitive advantage of Technology on current HR Trends" 4. EXAMINE the changing role of HR Priorities 5. ELABORATE upon the various types of current HR Trends 6. "APPLY the existing Tech tools to real time HRM Challenges and offer Solutions."
410 HR	Designing HR Policies	Subject Elective (SE) Course	1. IDENTIFY important points to be incorporated in HR Manual 2. UNDERSTAND policy requirement for Recruitment & Selection process 3. PREPARE policies on employee benefits for an organization of your choice 4. ILLUSTRATE steps involved in better employee relations & grievance handling 5. CONSTRUCT various HR policies for an organization of your choice
412 HR	Best Practices In HRM	Subject Elective (SE) Course	1. DEFINE dynamic approach towards Human Resource activities and practices. 2. EXPLAIN theoretical framework for best practices. 3. IDENTIFY & CLASSIFY the practices according to the industry and sub sectors of the industry. 4. COMPARE and DETERMINE various skill sets required at Human Resource Section. 5. PLAN a survey of various industry and DEVELOP a trend analysis of Human Resource Best Practices.
403 OSCM	E Supply Chains and Logistics	Subject Core (SC) Course	1. DESCRIBE the structure of modern days Logistics. 2. EXPLAIN the key concepts of Supply Chain Management and the – driving forces in contemporary Supply Chain Management. 3. "IDENTIFY the various flows in real world supply chains and Logistics. IDSCRIBE the importance of documentations." 4. "COMPARE and CONTRAST push and pull strategies in Supply Chain Management. ANALYSE the impact of tracking system linkage in Logistics." 5. EXPLAIN the key Operational Aspects of E Procurement. 6. DEVELOP a framework for e-logistics
404 OSCM	Industry 4.0	Subject Core (SC) Course	1. DEFINE industrial revolutions and its different aspects. 2. EXPLAIN the role of technology pillars of Industry 4.0. 3. DEMONSTRATE the use of data in effective decision making. 4. "ILLUSTRATE the need of cyber physical system for sustainable competitive advantage." 5. EXPLAIN the challenges faced by various industries in full fledge implementation of Industry 4.0 6. DEVELOP a framework for any organization using base of Smart Industry Readiness Index Proposed by Singapore EDB

409 OSCM	Enterprise Resource Planning	Subject Elective (SE) Course	1. "DESCRIBE the key concepts of ERP systems for manufacturing or service organizations." 2. EXPLAIN the scope of common ERP Systems modules. 3. DEVELOP basic understanding of how ERP enriches the business organizations in achieving a multidimensional growth. 4. EXAMINE the challenges associated with implementing enterprise systems and their impacts on organizations. 5. JUSTIFY selection of an appropriate ERP transition strategy. 6. FORMULATE best selection and implementation strategy in a real setting.
413 OSCM	Facilities Planning	Subject Elective (SE) Course	1. DESCRIBE the concepts and principles of Facilities Planning. 2. EXPLAIN the key considerations in Facilities Planning. 3. ILLUSTRATE the use of the concepts and principles of Facilities Planning. 4. EXAMINE the practical layouts in real world in light of the theoretical concepts and principles of Facilities Planning. 5. EVALUATE various approaches to Facilities Planning. 6. REARRANGE existing layouts for enhanced outcomes.
402 THM	Tourism and Travel Management	Subject Core (SC) Course	1. DEFINE the various components of the Tourism Industry & Types of Tourism 2. UNDERSTAND basic operations of a Travel Agency & tour conduction 3. "EXECUTE theoretical knowledge to design various tour packages & work on costing for the packages" 4. Analyze changing trends in Travel & Transport industry- Domestic & International 5. INTERPRET the impacts of Tourism Industry globally & practicing of Eco- Tourism 6. BUILD new concepts of Eco-Tourism according to customer requirements
406 THM	Revenue Management for Hospitality	Subject Elective (SE) Course	1. DESCRIBE Basic concepts & terminologies related to finance & revenue 2. "EXPLAIN Flow of cash, capital, investment, loan & generation of revenue from various sectors of Hospitality Franchising, leasing & renting out properties" 3. DETERMINE the utilization of available funds for business maximization 4. To ANALYSE Financial status of the organisation 5. "MEASURE the relation between income & outflow of revenue, profit & loss of organization Budgeting of required necessities Forecasting business & making necessary investments" 6. "DEVELOP Business plan for future prospectus of organization Business proposals & expansions"
404 IB	Global Trade and Logistics Management	Subject Core (SC) Course	1. Describe the economic significance of trade along with the logistics processes 2. "Explain International Trade Theories And Applications In Business" 3. "Identify Various Environmental Factors Associated With International Business" 4. "Examine Various Modes And Practices Of International Logistics" 5. Explain The Activities Invlolved In Entire Logistics Processs In International Business 6. Develop The Appropriate Sttrategy Of Operations For Global Trade And Logistics
410 IB	International Banking and Foreign Exchange Management	Subject Elective (SE) Course	1. Describe The Characteristics And Significance Of International Banking 2. "Explain The Relevance Of Money Market And Monitory Policy In International Banking" 3. Identify Various Types Of Foreign Exchange Markets And Transacti 4. Examine Supply And Demand View Of Exchange Rates In International Business 5. Explain The Exchange Rate Risk And Exposure In International Markets 6. Discuss On Linkages Of International Banking And Foreign Exchange With International Business
402 RABM	ICT for Agriculture Management	Subject Core (SC) Course	1. RECALL the basic terminologies related to ICT 2. UNDERSTAND the use of ICT with different aspects & various issues & challenges for ICT information services 3. Apply the GIS Applications in micro resource mapping 4. ANALYZE the different tools and techniques used under ICT in Agriculture Management 5. EVALUATE the common ICT platforms for information services 6. CHOOSE the right ICT as per the requirement of agriculture activity

406 RABM	Rural Marketing II	Subject Elective (SE) Course	1. DESCRIBE the key terms associated with the Strategies of marketing. 2. COMPARE and CONTRAST various approaches to pricing for a real world marketing offering in both rural and urban markets 3. DEMONSTRATE an understanding of Framework of IMC 4. EXAMINE the various distribution Strategies of a real-world marketing offering 5. EXPLAIN the rising organized rural retailing, malls & Government initiatives 6. DESIGN the Promotion Strategy in rural marketing
404 BA	Artificial Intelligence in Business Applications	Subject Core (SC) Course	1. IDENTIFY KNOWLEDGE associated and represent it by logical sequence and plan a strategy to solve given problem 2. UNDERSTAND AI's fundamental concepts and methods. 3. APPLY various machine learning algorithms on structured data to develop machine learning models. 4. ACQUIRE advanced Data ANALYSIS SKILLS through algorithm and search processes. 5. SELECT logical and functional process to develop the model 6. CREATE SOLUTIONS for various business problems using AI techniques.
409 BA	E Commerce Analytics - II	Subject Elective (SE) Course	1. DESCRIBE the key concepts in e-commerce analytics. 2. DEMONSTRATE the use of analytics to drive profitability throughout the organization, and across the entire customer experience and lifecycle. 3. "SOLVE the unique problems in e-commerce, and transform data into better decisions and customer experiences." 4. DISCOVER high-value insights via dashboards and visualization. 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. 6. FORMULATE the right analytics driven strategy for ecommerce businesses.

	MCA (2020 Pattern)	

Semester I

Course Code	Course Name	Course Outcome
IT-11	Java Programming	CO1 Understand Basic Concepts of OOPs, Java, Inheritance, Package. (Understand) CO2: Understand Exception handling, arrays and Strings and multi-threading in Java (Understand.) CO3: Understand collection framework (Understand) CO4: Develop GUI using Abstract Windows Toolkit (AWT) and event handling (Apply) 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) CO2: implement tree, graph, hash table and heap data structures (apply) CO3: apply brute force and backtracking techniques (apply) CO4: demonstrate greedy and divide-conquer approaches (apply) CO5: implement dynamic programming technique (apply)
IT-13	Object Oriented Software Engineering	CO1: Distinguish different process model for a software development. (Understand) CO2: Design software requirements specification solution for a given problem definitions of a software system. (Analyze) CO3: Apply software engineering analysis/design knowledge to suggest solutions for simulated problems (Analyze) CO4: Design user interface layout for different types of applications (Apply) 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) CO2: Understand multicore and multiprocessing OS. (Understand) CO3: explain Realtime and embedded OS (Understand) CO4: understand Windows and Linux OS fundamentals and administration. (Understand) CO5: solve shell scripting problems (Apply)
IT-15	Network Technologies	CO1: Understand the basic concepts of Computer Network, and principle of layering (Understand) CO2: Apply the error detection and correction techniques used in data transmission (Apply) CO3: Apply IP addressing schemes and sub netting (Apply) CO4: Understand the concept of routing protocols, Application layer protocols & Network Security(Understand) CO5: Apply the socket programming basics to create a simple chat application (Apply)
IT-11L	Practicals	CO1: Demonstrate Collection framework (Apply) CO2: Develop GUI using awt and swing (Apply) CO3: Develop Web application using JSP and Servlet, JDBC (Apply) CO4: Apply Data Structure to solve problems using JavaScript (Apply)
OS-1	Wordpress	CO1:UnderstandWordPress as a content management system (CMS)(Understand) CO2: Understand Web pages, Images,Themes, Widgets, Admin panel etc (Understand) CO3: Understand users and roles in wordpress admin panel(Understand) CO4: Develop a wordpress website (Apply) CO5: Using social media links, forms, blogs in wordpress site (Apply)
OS-1	Gsuite	CO1: Understand Gsuite applications (Understand) CO2: Understand Fetures in Google classroom , Google meet, Google calendar, Goog;le docs etc(Understand) CO3: Develop Google Calendar(Apply) 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)

Semester II

Course Code	Course Name	Course Outcome
IT-21	Python Programming	CO1: Understand Demonstrate the concepts of python and modular programming(Understand) CO2: Apply the concepts of concurrency control in python (Apply) CO3: Solve the real-life problems using object-oriented concepts and python libraries (Apply)

		CO4: Demonstrate the concept of IO, Exception Handling, database (Apply)
		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) CO2: Learn the philosophy, principles and lifecycle of an agile project. (Understand) CO3: Demonstrate Agile Teams and Tools and Apply agile project constraints and trade-offs for estimating project size and schedule (Apply) CO4: Explain Project Tracking and Interpretation of Progress Report (Understand) 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) CO2: Demonstrate specific optimization technique for effective decision making (Apply) CO3: Apply the optimization techniques in business environments (Apply) CO4: Illustrate and infer for the business scenario (Analyze) 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) CO2: Design appropriate user interfaces and implements webpage based on given problem Statement (Apply) CO3: Implement concepts and methods of NodeJS (Apply) CO4: Implement concepts and methods of Angular (Apply) 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) CO2: Design relational database using E-R model and normalization (Apply) CO3: Demonstrate XML database and nonprocedural structural query languages for data access (Apply) CO4: Explain concepts of Parallel, Distributed and Object-Oriented Databases & their applications (Understand) 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) CO2: Implement Advanced Internet Technologies (Apply)
OS– 3	Big Data Analytics	CO1 :Understand Big Data, characteristics and in the real world CO2 : Understand applications ogf Big Data CO3 :Understand big data technologies
OS– 4	Aptitude Training 1	CO1 :Understand and practice quantitative aptitude CO2 :Understand and practice Logical reasoning CO3 :Understand and practice verbal reasoning CO4 :Understand different placement practice techniques
ITC21	Mini Project	CO1: Create working project using tools and techniques learnt in this semester (Create)

	Program Name: MCA	Year 2020-21
	MCA (2019 Pattern)	

Semester III

Course Code	Course Name	Course Outcome
IT-31	Java Programming	CO1: Understand Basic Concepts of Java and multi-threading.-Understand CO2: Demonstrate Collection framework -Apply CO3: Develop GUI using AWT and Swing -Apply CO4: Develop Java Applications using Socket, RMI –Apply CO5: Develop Web application using JSP and Servlet, JDBC with MVC --Apply
IT-32	Data Warehouse and Data Mining	CO1: learn and understand techniques of preprocessing various kinds of data -Understand CO2: Understand Data warehouse concepts. - Understand CO3: Apply association Mining Techniques on large Data Sets. - Apply CO4: Apply classification and clustering Techniques on large Data Sets. - Analyze CO5: Understand other approaches of Data mining techniques. - Understand
IT-33	Software Testing and Quality Assurance	CO1: Understand the role of software quality assurance in contributing to the efficient delivery of software solutions –Understand CO2: Demonstrate specific software tests with well-defined objectives and targets –Apply CO3: Apply the software testing techniques in commercial environments –Apply CO4: Construct test strategies and plans for software testing –Analyze CO5: Understand the usage of software testing tools for test effectiveness, efficiency & coverage –Understand
IT-34	Cloud Computing	CO1: Describe the concepts of Cloud Computing and its Service Models & Deployment Models – Understand. CO2: Classify the types of Virtualization – Understand. CO3: Describe the Cloud Management and relate Cloud to SOA – Understand. CO4: Interpret Moving application s to of Cloud – Apply. CO5: Demonstrate practical implementation of Cloud computing – Apply
MT31	Probability & Combinatorics	CO1: Apply counting principles to solve the problems –Apply CO2: Apply various mathematical tools to solve problems. –Apply CO3: Understand and apply basic probability principles. –Apply CO4: Demonstrate the concept of univariate and bivariate random variable – Apply CO5: Understand and illustrate the probability distributions.-Analyze
IT-31L	Practical based on Java Prog.	CO1: Create Web application using JSP and Servlet, JDBC with MVC

Semester IV

Course Code	Course Name	Course Outcome
IT-41	Python Programming	CO1: Understand concepts of python.-Understand CO2: Demonstrate the concepts modular programming -Apply CO3: Apply the concepts of concurrency control in python -Apply CO4: Solve the real life problems using object oriented concepts and python libraries –Apply CO5: Demonstrate the concept of IO, Exception Handling, database --Apply
BM-41	Information System and Security Audit	CO1: Interpret the threats and vulnerabilities from IT system of business software applications. - Apply CO2: Understand Information Security Management System (ISMS) for IT system of business -Understand CO3: Apply information security policies and standards for business IT System-Apply CO4: Discuss various IS controls for Business Continuity and Disaster Recovery of business IT system. - Understand CO5: Describe information security audit and understand information security IT governance framework. – Understand
MT-41	Optimization Techniques	CO1: Understand the role and principles of optimization techniques in business world -Understand CO2: Demonstrate specific optimization technique for effective decision making -Apply

		CO3: Apply the optimization techniques in business environments -Apply
		CO4: -Illustrate and infer for the business scenario- Analyze
		CO5: analyze the optimization techniques in strategic planning for optimal gain. - Analyze
IT-42	Essentials of Architectural Framework	CO1: Understand Basics Fundamentals of Architecture and Framework. (Understand)
		CO2: Understand appropriate Architecture Framework design. (Understand)
		CO3: Select appropriate technical and industry specific frameworks. (Understand)
		CO4: Apply the software development process (Apply)
		CO5: Apply the quality of Architecture (Apply)
IT-43	Knowledge Representation and Artificial Intelligence	CO1: Develop a basic understanding of AI building blocks presented in intelligent agents- Develop.
		CO2: Choose an appropriate problem solving method and knowledge representation technique – Choose.
		CO3: Apply the different Propositional Logic concepts for knowledge representation-Apply.
		CO4: Analyze and understand the models for reasoning with uncertainty and different planning and learning approaches in the field of Artificial Intelligence – Analyze and understand.
		CO5: Demonstrate awareness and a fundamental understanding of various applications of AI – Demonstrate.
IT-41L	Practical based on Python Programming	CO1: Implement Python programs with conditionals and loops.(Apply)
		CO2: Develop Python programs step-wise by defining functions and calling them. (Apply)
		CO3: Apply Python lists, tuples, dictionaries for representing compound data. (Apply)
		CO4: Apply file handling function in Python. (Apply)
		CO5: Apply NumPy, pandas, matplot modules. (Apply)

Program Name: MCA	Year 2020-21

MCA (2015 Pattern)

SEMESTER V

Code	Course Name	Course Outcomes
COMMONSUBJECTFOR ALLTRACKSFOR SEMESTERV	
ITC51	Software Project Management	Learningprocessofsoftwareprojectmanagement,costestimation,useofproject Managementtools,configurationmanagement,userrolesandsoftwareteams.
ITC51P	Project*	PreparesforthefinalProjectinSemVI.Collectionofallrequirementsanddotheanalysisofthe requirementsofproject.StudentpreparetheSRSoftheprojectandcompletethepr ojectuptodesignphaseofSDLC.
SSC51	Soft Skills-Group Discussion*	UnderstandTeambuilding,Teambriefing,RoleofTeamleader,Conflictresolution,Methodolog yofGroupdiscussions,RoleFunctionsinGroupDiscussion,Improvesgroupperformance,Mockg roupdiscussions
TRACKI:SOFTWARE&APPLICATIONDEVELOPMENT	
T1-IT51	ASP.NetusingC#	Learnapplicationdevelopmenttechnologyusing.NETFramework4.0andVisualStudio2010
T1-IT52	ServiceOrientedArchitecture	1. Togainunderstandingofthebasicprinciplesofserviceorientation 2. Tolearnserviceorientedanalysistechniques 3. Tolearntechnologyunderlyingtheservicedesign 4. Tolearnadvancedconceptssuchasservicecomposition,orchestrationandChoreography 5. ToknowaboutvariousWSspecificationstandards
T1-IT53	BigDataAnalytics	1. ToUnderstandtheBigDatachallenges&opportunities,itsapplications 2. GainconceptualunderstandingofNOSQLDatabase. 3. Understandingofconceptsofmapandreduceandfunctionalprogramming 4. GainconceptualunderstandingofHadoopDistributedFileSystem.
T1-IT54	MobileApplicationDevelopment	StudentareabletodevelopthemobileapplicationusingAndroid
T1-IT51L	MiniProjectusingASP.Net	Studentdesigndynamicwebsiteusingasp.netusingc#usingVisualStudio2010
T1-IT54L	MiniProjectUsingMobileApplicationDevelopmen	ProvideshandsonpracticetostudenttoenhancetheirAndroid Programming Skills with concepts such as Views and view groups, Layouts, CreatingMenusIntents,Adapters,Dialogs,locationbasedservices,filehandlings,C RUDoperationonSQlite,Gtalk,Audio,Videoetc.
TRACKII :INFRASTRUCTURE & SECURITY MANAGEMENT	
T2-IT51	Qualityverification	Awarenessaboutthequalityparametersofsoftware.
T2-IT52	InfrastructureAuditing&Implementation	Providesstudentswiththeknowledge,skillsandmotivationtofacetheglobalchallengesthatone might foreseeinanyventureandunderstandappropriatemethods usedtoanalyze,compareandevaluatetheusageofinfrastructure

Course Code	CourseName	Outcome
T2-IT53	ITServiceManagement	1. AppreciatetheorganizationalsignificanceofmanagingtheITserviceencounter toachieveinternalandexternalcustomersatisfaction. 2. Uunderstandnewservicedevelopmentfrombothaproductandprocessperspective. 3. Togainanappreciationofthecomplexitiesassociatedwithimplementingcha ngeduringITservices. 4. ExtendtheknowledgescopefromTechniquetoManagement,andfromSoftware EngineeringtoServiceScience.
T2-IT54	Digitalande-businessInfrastructureandsecurity	StudentsareabletogetknowledgeofE-commerceanddigitalpayments
T2-IT52L	MiniProjectonInfrastructureAudit	Exploreandidentityvariousfacetsofinfrastructurerequiredforeffective implementationofsoftwareprojectsandunderstandingofsecuritymanagementissuesan dCasestudies.
T2-IT54L	Designofdigitalande-businessinfrastructureandsecurity	UseteInetandperformthetaskusingnetcatutility. Performportscanningwithnmap,superscanUsingnmap
TRACKIII:INFORMATIONMANAGEMENT&QUALITYCONTROL	
T3-IT51	SoftwareTesting&Tools	LearnSoftwareTestingToolsgoodpracticeswiththehelpofvarioussoftwaretestingtechniquesa nd toolsandcasestudies
T3-BM52	EntrepreneurshipDevelopment	Providesstudentswiththeknowledge,skillsandmotivationrequiredtoencourageentrepreneu rial successandlaydowntheconditionsand solutionstothechallengesthatonemightforeseeinaventure.
T3-IT53	DecisionSupportSystem	LearnDSS,DSSTools,DSSimplementationandimpactsandEnterpriseDSS.
T3-IT54	BusinessArchitecture	Givesstudentsabroadframeworkthatcoverstherangeofarchitectureworkthatprecedesandst eers Systemdevelopment,andtofocusattentionontheareaswherethearchitectisresponsibleforeff ectivedesignandRiskManagement
T3-IT51L	CASEToolsLab	MakesaccustomedwithvariousautomatedtoolsusedforSoftware DesignandDevelopment,Testing,ProjectManagementetc.
T3-BM52	ActivitiesbasedonEntrepreneurshipDevelopment	1. Getsmotivationtobecomeanentrepreneur. 2. Getstheknowledgeofhowthebusinesscanrun.3.K nowstheprocedureoffinancerstoraisefinance

		TRACKIV:NETWORKING
T4-IT51	NetworkRoutingAlgorithms	Awarenesswithdifferenttypesofnetworkroutingprotocolsandalgorithms
T4-IT52	ComputerandNetworkSecurity	Understandthevarioussecuritymeasuresrelatedtocomputerand networksecurity.
T4-IT53	CloudArchitecturesandSecurity	Introducesthebasicconceptsofsecuritysystemsandcryptographicprotocols,whicharewidelyused in thedesignofcloudsecurityandtheissuesrelatedmultitenancyoperation,virtualizedinfrastructuresecurityandmethodstoimprovevirtualizationsecurity
T4-IT54	UnifiedCommunication	1. LearnandunderstandthebasicprinciplesofTelecommunicationswitching,trafficand networks. 2. LearnandunderstandbasicconceptsofIPEPBAXsystem,wirelesspropagationan dthetechniquesusedtomaximizethecapacityofnetwork. 3.LlearnandunderstandofworkingofVOIPanditsprotocols.
T4-IT52L	ComputerandNetworkSecurity–Lab	Understandissueswithcomputerandnetworksecuritybygivingthehandson knowledgeofvariousthinglikemonitoringandanalyzingnetworktraffic,installi ngandconfiguringdifferenttoolslikewireshark,SNORT,NMAP,PortScanner setc.
T4-IT53L	CloudBuildingwithinOrganization(Deployment ofcloud	Buildingcloudusingopensourcetechnologyandinstallingapplicationsonsuchacloud.
		SEMESTER VI
ITC61	Open subject foreachTRACK*	ThestudentsareequippedwithCurrentTrendsintheFieldofInformationTechnologytobridgethegap betweenCurriculumandtheindustry
ITC61L	Open subject LAB	ThePracticalimplementationofthecurrenttechnologyisdeliveredtostudentssothattheyare preparedfortheindustry
ITC61P	Project	ProjectsareundertakenintheInstituteoroutsidewhichprovideactualapplicationdevelopmentin respectivespecializationsProjectWorkcanproveusefulorberelevantfromthecommercialmanagementangle.

SkillDevelopmentComponent

TheUniversityhasprescribedaseparate 4creditweightageonskilldevelopment.

Sr.No.	Course Code	CourseName	CourseOutcomes
1	NA	Softskills (OfferedinSemesterII)	1. ToStrengthengrammaticalbaseofEnglishcommunication 2. Toimproveoralandspokencommunicationindifferentsituations 3. Improveandrefinenon-verbalandwrittenEnglishcommunicationskills 4. Buildandpracticegoodpresentationskills 5. Tounderstandandbuildtelecommunicationandelectroniccommunicationskills 6. Tointroduceself-managementandteammanagement concepts
2	NA	CorporateSocial Responsibility (OfferedinSemesterIV)	1. Todevelopanunderstandingforcorporatecitizenshipandsustainabilityfrom businessperspective. 2. TolearnhowtostrategicallymanageCSRwithinyourorganization. 3. Tounderstandhowtoimproveyourcompany's sustainabilityperformance

TheUniversityhasalsointroducedadditionalcoursesonHumanRightsand CyberSecurity

Sr.No.	Course Code	CourseName	CourseOutcomes
1	191	HumanRightsEducationI-Introduction to HumanRightsand Duties (SemesterI)	1. TointroducebasicconceptsofHumanRights 2. Tounderstandperspectivesofrightsandduties 3. Tointroduceterminologyofvariouslegalinstruments 4. ToIntroducehistoryofhumanrights 5. ToknowprovisionsinUnitedNationsCharters 6. Toknowvariousrights,duties,limitationsandfinalprovisions.
2	291	Human Rights II-Human rights ofvulnerable anddisadvantaged groups(SemesterII)	1. Tointroducebasicconcepts 2. ToknowaboutInternationalandnationalstandardsofhumanrights ofwomen andchildren. 3. To learn various concepts and provisions related tosociallyandeconomicallydisadvantagedandvulnerable groups 4. ToknowhumanrightsinIndianContext,enforcement 5. TounderstandHumanrightsviolationandIndianPolity 6. Tounderstandroleofadvocacygroups
3	192	CyberSecurityI-Pre-requisitesin InformationandNetwork Security(SemesterI)	1. Tounderstandbasicnetworkingconcepts 2. Tounderstandinformationsecurityconcepts 3. Tounderstandsecuritythreatsandvulnerabilities 4. Tounderstandconceptsofcryptographyandencryption

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