



Self-Study Report

Criteria II

2.6.1 Programme Outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) for all the Programmes offered by the institution are stated and displayed on website and communicated to teachers and students.

Master of Computer Application (MCA) 2015-18

| Program Educational Objectives (PEOs) | |
|--|--|
| PEO1 | To provide opportunities for acquiring in-depth knowledge of fundamental concepts and IT enabled skills for venerable development. |
| PEO2 | To develop an ability to identify, critically analyze and formulate a computing problem. |
| PEO3 | To promote use of open source technology and encourage for innovative software development. |
| PEO4 | To emphasize on awareness of changing trends and career avenues in computer applications and management through various student driven activities. |
| PEO5 | To inculcate human values, professional ethics, research orientation and social responsibilities. |

| Program Outcomes (POs) | |
|--|---|
| By the culmination of this program, the post graduate acquires the ability | |
| PO1 | To get acquainted with IT and management enabled skills. |
| PO2 | To develop software applications to resolve comprehensive problems using systematic analysis and design approach. |
| PO3 | To integrate and apply the contemporary IT practices. |
| PO4 | To imbibe learning abilities, skill development and awareness of social concerns. |
| PO5 | To demonstrate team work with the ability of leadership, analytical reasoning for solving time critical problems. |
| PO6 | To imbibe the strong human values for responsible professional in IT. |



Course Outcomes (Cos)

| SEMESTER | Track | Code | Subject/Course | | Course Outcome [CO] Students will get acquainted with |
|----------|--|-------|--|-----|---|
| SEM-I | COMMON | IT11 | Fundamentals of Computer | CO1 | Organization of computer. |
| | | | | CO2 | Working of the memory system and basic processing unit. |
| | | | | CO3 | Number system and data representation. |
| | | IT12 | C Programming with Data Structure | CO1 | Basics of programming logic. |
| | | | | CO2 | Analytical thinking. |
| | | | | CO3 | Complex problem solving approach. |
| | | | | CO4 | Data structure concepts. |
| | | IT13 | Software Engineering | CO1 | Requirement analysis. |
| | | | | CO2 | System design. |
| | | | | CO3 | Agile software development methodology. |
| | | IT14 | Database Management System | CO1 | Conceptual knowledge on database and normalization process. |
| | | | | CO2 | Concurrency control and security techniques. |
| | | | | CO3 | Database schema design. |
| | | BM11 | Principles and Practices of Management and Organizational Behavior | CO1 | Basics of Management concepts. |
| | | | | CO2 | Organizational Behavioural Concepts and its applications. |
| | | BM12 | Business Process Domains* | CO1 | Business processes, practices and their applications. |
| | | | | CO2 | Business applications like CRM and SCM. |
| | | | | CO3 | Financial aspects of business and management. |
| | | | | CO4 | Analysis of financial statements. |
| | | IT12L | C and DS Lab | CO1 | Basics of programming logic. |
| | | | | CO2 | Analytical thinking. |
| | | | | CO3 | Complex problem solving approach. |
| | | | | CO4 | Data structure concepts. |
| | | IT14L | DBMS Lab | CO1 | Conceptual knowledge on database and normalization process. |
| CO2 | Concurrency control and security techniques. | | | | |
| CO3 | Database schema design. | | | | |
| SS11 | Word Power | CO1 | Writing skills and spoken ability | | |



| SEMESTER | Track | Code | Subject/Course | Course Outcome [CO] Students will get acquainted with | |
|----------|-----------------------------------|-------|---|--|--|
| | | | | | |
| SEM-II | COMMON | IT21 | Essentials of Operating System | CO1 | Fundamentals of operating system. |
| | | | | CO2 | Memory management and process management. |
| | | | | CO3 | Dedlock, file system and disk management. |
| | | IT22 | Web Technologies | CO1 | Basics HTML and CSS. |
| | | | | CO2 | Client side scripting languages like javascript |
| | | | | CO3 | Server side scripting languages like ASP |
| | | IT23 | Core Java | CO1 | Object Oriented concepts and its implementation |
| | | | | CO2 | Java swing and collection framework. |
| | | | | CO3 | AWT, Applet and Multithreading |
| | | IT24 | Essentials of Networking | CO1 | Transmission media and multiplexing |
| | | | | CO2 | Common network architectures, ISO-OSI and TCP-IP reference models |
| | | | | CO3 | Local Area Networks and broadband networks |
| | | | | CO4 | IP addressing & routing |
| | | MT21 | Discrete Mathematics | CO1 | Their logical capabilities. |
| | | | | CO2 | Applications of mathematics in real world problem. |
| | | | | CO3 | Complex problem solving & programing, |
| | | BM21 | Essentials of Marketing* | CO1 | Essentiality of Marketing. |
| | | | | CO2 | Application of IT for the business benefits. |
| IT22L | Mini Project using Web Technology | CO1 | Ability to develop static and dynamic website. | | |
| | | CO2 | Ability to Analyze the system | | |
| IT23L | Core Java Lab | CO1 | Object Oriented concepts and its implementation | | |
| | | CO2 | Java swing and collection framework. | | |
| | | CO3 | AWT, Applet and Multithreading. | | |
| SS21 | Oral Communication | CO1 | Dynamic thinking ability in english-speaking. | | |
| SEM-III | COMMON | MTC31 | Probability and Combinatorics | CO1 | The concept of probability. |
| | | | | CO2 | Probability theory to solve interesting problems. |
| | | | | CO3 | Applications of different distributions in real world problems. |
| | | ITC31 | Multimedia Tools for Presentation* | CO1 | Various multimedia tools and software to make the presentation effective |
| SSC31 | Soft Skills-Presentation | CO1 | The concept of Professional working environment & able to apply the different stakeholders in real world. | | |



| SEMESTER | Track | Code | Subject/Course | | Course Outcome [CO] Students will get acquainted with |
|----------|---|---|--|--|---|
| | TRACK I : SOFTWARE & APPLICATION DEVELOPMENT | T1-IT31 | Advanced Data Structure and C++ programming | CO1 | The applications of Object Oriented Programming concepts. |
| | | | | CO2 | The concepts of Data Structures. |
| | | | | CO3 | Implementation of Data Structure concepts using object oriented programming |
| | | T1-IT32 | Design and Analysis of Algorithms (DAA) | CO1 | Concepts of algorithm and its complexity. |
| | | | | CO2 | Complex problem solving through various methods for optimization. |
| | | | | CO3 | Approaches to solve large computing problems. |
| | | T1-IT33 | Object Oriented Analysis and Design | CO1 | Object-oriented analysis & design concepts. |
| | | | | CO2 | Design components to maximize their reuse. |
| | | | | CO3 | Unified Modelling Language. |
| | | T1-IT34 | Advanced Internet Technology | CO1 | Web development concepts. |
| | | | | CO2 | Web designing using HTML5, JQuery. |
| | | | | CO3 | AJAX and XML |
| | CO4 | | | Server side scripting languages like PHP | |
| | T1-IT31L | DS & C++ Lab | CO1 | Implementation of the oops concept. | |
| | | | CO2 | Applications of data structure and algorithms for problem solving. | |
| | T1-IT34L | Mini Project using AIT | CO1 | Identification of problems and designing of web based system. | |
| | | | CO2 | Publishing the website. | |
| | TRACK II : INFRASTRUCTURE & SECURITY MANAGEMENT | T2-IT31 | IT Infrastructure Architecture | CO1 | IT Infrastructure management concept. |
| CO2 | | | | Service delivery and service support process. | |
| CO3 | | | | Service Management and storage management | |
| T2-IT32 | | Data Centre Architecture & Storage Management | CO1 | Designing of a Data Centre. | |
| | | | CO2 | Understanding of the options in the running of an efficient Data Centre. | |
| | | | CO3 | Value of data to a business, information lifecycle, challenges in data storage and data management and solutions available for data storage. | |
| T2-IT33 | | Introduction to Information Security | CO1 | Values of Information security. | |
| | | | CO2 | Implementation of information security practices in IT companies. | |
| | | | CO3 | Models, Standards & Legal Framework. | |
| T2-IT34 | | Office Automation Tools | CO1 | Basic knowledge of office automation tools. | |
| | CO2 | | Applications of office automation tools in the | | |



| SEMESTER | Track | Code | Subject/Course | | Course Outcome [CO] Students will get acquainted with |
|----------|--|--------------|--|---|--|
| | | | | | various areas of business. |
| | | T2-IT31L | Mini Project on IT Architecture and Information Security | CO1 | Case studies based on information security |
| | | | | CO2 | Implement different encryption and decryption techniques in the projects and applications. |
| | | T2-IT34L | Office Automation Tools – Lab | CO1 | Practical exposure on tools required for office automation. |
| | | | | CO2 | Comparison of various office automation tools like office equipments, hardware and software. |
| | TRACK III : INFORMATION MANAGEMENT & QUALITY CONTROL | T3-IT31 | Enterprise Resource Planning | CO1 | ERP systems, its structure, modules |
| | | | | CO2 | Benefits of ERP system |
| | | | | CO3 | Implementation and post implementation issues through real-life cases |
| | | T3-IT32 | Data Communication & Computer Networks | CO1 | Data Communication Networks and Reference Models |
| | | | | CO2 | IP Addressing and Routing & DNS |
| | | | | CO3 | Networking protocols |
| | | | | CO4 | Fundamentals of network security |
| | | | | CO5 | Advanced network technologies. |
| | | T3-IT33 | Data Warehouse, Mining, BI Tools & applications | CO1 | Concepts of data-warehousing |
| | | | | CO2 | Data mining techniques |
| | | | | CO3 | Importance of BI in emerging world. |
| | | T3-IT34 | Information Security & Audit | CO1 | Value of information and its security practices |
| | | | | CO2 | Implementation of information security practices in IT companies. |
| | | | | CO3 | Framework for security policies, controls and auditing for security |
| | | T3-IT32L | DCCN Lab | CO1 | Basic practical's of networking. |
| | CO2 | | | Different network management tools. | |
| | CO3 | | | Virtualization, IP address configuration, firewall configuration. | |
| | T3-IT34L | BI Tools Lab | CO1 | Data Mining Techniques | |
| | | | CO2 | Spreadsheet based data mining tool & BI tools such as XLMiner | |
| | | | CO3 | Business Intelligence Tool like Pentaho | |
| | NET | T4- | Network | CO1 | Fundamental knowledge about the network |



| SEMESTER | Track | Code | Subject/Course | | Course Outcome [CO] Students will get acquainted with |
|----------|---|----------|--|---|---|
| | | IT31 | Administration I | | administration |
| | | | | CO2 | Practical exposure by creating LAN'S, WAN'S etc. |
| | | | | CO3 | Configurations of router & switches |
| | | T4-IT32 | Windows Server Configurations | CO1 | Installing and configuring servers, roles and features |
| | | | | CO2 | Deployment and configuration of core network services, administer Active Directory , Creation and management Group Policy |
| | | | | CO3 | Creating and configure virtual machine settings |
| | | T4-IT33 | IT Infrastructure Monitoring | CO1 | IT infrastructure. |
| | | | | CO2 | Different network management tools. |
| | | | | CO3 | Project and operations management. |
| | | T4-IT34 | Linux Administration I | CO1 | Linux File system and user administration |
| | | | | CO2 | Basic linux commands for backup and printing the documents. |
| | | | | CO3 | Configuration of Domain Name Server |
| | | T4-IT31L | Network Administration Lab – I | CO1 | The fundamentals of network administration |
| | | | | CO2 | Practical knowledge of IP addressing, Routing, configurations of VLAN, VTP |
| | | T4-IT32L | Server Configuration Lab (Windows and Linux) | CO1 | Creation and configuration of Windows server. |
| CO2 | Creation and configuration of Linux server. | | | | |
| SEM-IV | COMMON | ITC41 | Optimization Techniques | CO1 | Understanding of the different optimization techniques. |
| | | | | CO2 | Application of optimization techniques. |
| | | | | CO3 | Managerial decision making |
| | | ITC42 | Research Methodology & Statistical Tools* | CO1 | Research concepts with reference to business management scenario. |
| | | | | CO2 | Basic statistical techniques to solve various problems |
| | | SSC41 | Soft Skills - Interview * | CO1 | IT and general soft skills to attempt job interview |
| | RE & APPLIC | T1-IT41 | Advanced Java | CO1 | Socket programing, database connectivity, AWT |
| CO2 | | | | Web development using Servlet, JSP | |
| CO3 | | | | Frameworks like MVC, Spring and Hibernate | |



| SEMESTER | Track | Code | Subject/Course | | Course Outcome [CO] Students will get acquainted with |
|----------|------------------------------------|---|---|---|---|
| | | T1-IT42 | Python programming | CO1 | Fundamentals of Python Programming |
| | | | | CO2 | Implementation of Object oriented concepts using python programming. |
| | | | | CO3 | Formulating regular expressions for pattern matching. |
| | | T1-IT43 | Advance DBMS | CO1 | Different data modelling techniques and its use. |
| | | | | CO2 | Different architectures of different database. |
| | | | | CO3 | Different data mining algorithm and its implementation in real life scenario. |
| | | T1-IT44 | Cloud Computing | CO1 | Cloud services |
| | | | | CO2 | Virtulization |
| | | | | CO3 | Cloud security and issues in Cloud comouting |
| | | T1-IT41L | Adv. Java Lab | CO1 | Implementation Socket programing, database connectivity,AWT |
| | | | | CO2 | Web development using Servlet, JSP |
| | | | | CO3 | Frameworks like MVC, Spring and Hibernat, |
| | | T1-IT42L | Python Programming Lab | CO1 | Fundamentals of Python Programming |
| | | | | CO2 | Implementation of Object oriented concepts using python programming. |
| | | TRACK II : INFRASTRUCTURE & SECURITY MANAGEMENT | T2-IT41 | Identity and Access Management | CO1 |
| | CO2 | | | | Access management solutions. |
| | CO3 | | | | Troubleshooting Identity and Access Solutions. |
| | T2-IT42 | | IT Advisory Services | CO1 | Various a types of IT advisory services |
| | | | | CO2 | Consulting skills |
| | | | | CO3 | Global aspects |
| | T2-IT43 | | Infrastructure Security Audit | CO1 | IT infrastructure and current trends of it. |
| CO2 | | | | Security concerns of various devices. | |
| CO3 | | | | Planning, reporting and audit for security. | |
| T2-IT44 | Enterprise Solutions Architecture | CO1 | Understanding of enterprise, solution architects and framework | | |
| | | CO2 | Students will understand areas where the architect is responsible for effective design and risk management. | | |
| | | CO3 | Students will get architects with generally applicable knowledge and training. | | |
| T2-IT41L | Identity and Access Management Lab | CO1 | Hands on experience on IDA Solutions. | | |
| | | CO2 | Troubleshooting Identity and Access Solutions. | | |



| SEMESTER | Track | Code | Subject/Course | | Course Outcome [CO] Students will get acquainted with |
|----------|--|---------------------------------|--|---|---|
| | | T2-IT42L | Mini Project on IT Advisory Services and Enterprise Solutions Architecture | CO1 | Fundamentals of IT Advisory Services |
| | | | | CO2 | Case studies based on IT advisory services |
| | TRACK III : INFORMATION MANAGEMENT & QUALITY CONTROL | T3-IT41 | E Commerce & Knowledge Management | CO1 | E-commerce & m-commerce and electronic payment system. |
| | | | | CO2 | Security issues in e-commerce |
| | | | | CO3 | Knowledge management and various tools. |
| | | T3-IT42 | Cyber Laws & Intellectual Property Rights | CO1 | Cybercrime, its types and jurisdiction in the cyber world. |
| | | | | CO2 | IT act 2000 and its amendments. |
| | | | | CO3 | Intellectual property Rights |
| | | | | CO4 | Copyright issues in Cyberspace. |
| | | T3-BM43 | Customer Relationship Mgmt & Supply Chain Mgmt | CO1 | Role of IT for SCM & CRM. |
| | | | | CO2 | The application of IT in CRM |
| | | | | CO3 | Functionalities of CRM in service sector |
| | | T3-IT44 | Software Quality Assurance & Control | CO1 | Software Quality Assurance and control, |
| | | | | CO2 | The principles of software development emphasizing processes and activities of quality assurance. |
| | CO3 | | | Software Quality Assurance Metrics & Software Quality Infrastructure Components | |
| | T3-IT43L | Mini Project based on CRM & SCM | CO1 | Development of mini project using the concepts of CRM. | |
| | | | CO2 | Development of mini project using the concepts of SCM. | |
| | T3-IT44L | Software Quality Assurance Lab | CO1 | S/W Configuration Management Tools | |
| | | | CO2 | Students will able prepare system analysis documentation. | |
| | TRACK IV : NETWORKING | T4-IT41 | Network Administration II | CO1 | Advanced concepts of network administration |
| CO2 | | | | Troubleshooting of LAN switching and IP routing | |
| CO3 | | | | Routing protocols like OSPF, IGRP,EIGRP etc. | |
| T4-IT42 | Internet of Things | CO1 | Paradigm of objects interacting with people, information systems, and other objects via network communications | | |



| SEMESTER | Track | Code | Subject/Course | | Course Outcome [CO] Students will get acquainted with | | |
|----------|--|---------------------------------|-----------------------------|-----------------------------------|--|--|--|
| | | | | CO2 | IoT connectivity methods & technologies | | |
| | | | | CO3 | Different Protocols required for IoT | | |
| | | | | CO4 | Internet of Things Privacy, Security and Governance & different IoT applications | | |
| | | T4-IT43 | Linux Administration II | | | CO1 | Administration of Database services |
| | | | | | | CO2 | E-mail management in Linux |
| | | | | | | CO3 | Management of kernel & its modules |
| | | | | | | CO4 | Configuration of Internet Connectivity |
| | | T4-IT44 | Wireless Networks | | | CO1 | Wireless Local Area Network |
| | | | | | | CO2 | 3G, 4G and associated technologies. |
| | | | | | | CO3 | Sensor networks |
| | | | | | | CO4 | Interworking between WLANs and 3g WWANs |
| | | T4-IT41L | Virtualization Lab | | | CO1 | Knowledge of hardware virtualization |
| | | | | | | CO2 | Knowledge of software virtualization |
| | | T4-IT44L | Wireless Network Lab | | | CO1 | Practical exposure on wireless networks. |
| CO2 | Cases which helps to configure and understand real issues on the site. | | | | | | |
| SEM-V | COMMON | ITC51 | Software Project Management | CO1 | Process of software project management and cost estimation | | |
| | | | | CO2 | Application of project Management tools, configuration management | | |
| | | | | CO3 | User roles and software teams. | | |
| | | ITC51P | Project * | CO1 | Collection of requirements and requirement analysis | | |
| | | | | CO2 | Preparation of SRS of the project | | |
| | | | | CO3 | Design phases of project with reference to SDLC. | | |
| | SSC51 | Soft Skills - Group Discussion* | CO1 | Leadership skills and techniques. | | | |
| | SOFTWARE & APPLICATION | T1-IT51 | ASP .Net using C# | | CO1 | C# language in detail. | |
| | | | | | CO2 | Development web applications in ASP .Net using C# language. | |
| | | | | | CO3 | Web services and AJAX technology in ASP .Net. | |
| T1-IT52 | | Service Oriented Architecture | | | CO1 | Basic principles of service orientation and service oriented analysis techniques | |
| | CO2 | | | | Technology underlying the service design | | |



| SEMESTER | Track | Code | Subject/Course | | Course Outcome [CO] Students will get acquainted with | |
|----------|--|----------|---|--|--|--|
| | | | | CO3 | Advanced concepts such as service composition, orchestration and Choreography | |
| | | | | CO4 | Various WS specification standards | |
| | | T1-IT53 | Big Data Analytics | CO1 | Concept of Big data, its need in enterprise and challenges faced by enterprise application | |
| | | | | CO2 | NOSQL database Concept & its | |
| | | | | CO3 | Working of Hadoop distributed framework | |
| | | T1-IT54 | Mobile Application Development | CO1 | Architecture and features of Android | |
| | | | | CO2 | Development the Mobile Apps for Android. | |
| | | | | CO3 | Deployment of Android applications | |
| | | T1-IT51L | Mini Project using ASP .Net | CO1 | Applications of various controls to create web site. | |
| | | | | CO2 | CSS, Master Pages, State Management techniques and security issues in web development. | |
| | | T1-IT54L | Mini Project Using Mobile Application Development | CO1 | Hands on practice to student to enhance their Android programming skills | |
| | | | | CO2 | Development of mobile applications | |
| | TRACK II :INFRASTRUCTURE & SECURITY MANAGEMENT | T2-IT51 | Quality verification | CO1 | Quality parameters, operational aspects | |
| | | | | | CO2 | Quality standards |
| | | | | | CO3 | Testing Maturity Model |
| | | | T2-IT52 | Infrastructure Auditing & Implementation | CO1 | Fundamentals of infrastructure audit |
| | | | | | CO2 | Appropriate methods to analyze and compare the usage of infrastructure |
| | | | | | CO3 | Appropriate methods to evaluate the usage of infrastructure |
| | | | T2-IT53 | IT Service Management | CO1 | The organizational significance of managing the IT service |
| | | | | | CO2 | Achievement of internal and external customer satisfaction. |
| | | | | | CO3 | New service development from both a product and process perspective. |
| | | | | | CO4 | Complexities associated with implementing change |
| | | | T2-IT54 | Digital and e-business Infrastructure and security | CO1 | The knowledge of E-Commerce. |
| | | | | | CO2 | The knowledge of Digital security and digital payments. |



| SEMESTER | Track | Code | Subject/Course | | Course Outcome [CO] Students will get acquainted with | |
|-----------------------|----------|--|--|---|---|--|
| | | | mechanism | | | |
| | | T2-IT52L | Mini Project on Infrastructure Audit | CO1 | Exploration of various facets of infrastructure required for effective implementation of software projects. | |
| | | | | CO2 | The understanding of security management issues and Case studies | |
| | | T2-IT54L | Design of digital and e-business infrastructure and security mechanism | CO1 | Implementation of different security systems. | |
| | | | | CO2 | Implementation and configure various e-payment systems. | |
| | | TRACK III : INFORMATION MANAGEMENT & QUALITY CONTROL | T3-IT51 | Software Testing & Tools | CO1 | Fundamentals of Testing and software engineering |
| | | | | | CO2 | Different types of testing. |
| | | | | | CO3 | Approaches for testing |
| | | | T3-BM52 | Entrepreneurship Development | CO1 | Fundamentals of Entrepreneurship Management |
| | | | | | CO2 | Business Plan |
| | CO3 | | | | Institutional Support towards the development of entrepreneurship in India | |
| | T3-IT53 | | Decision Support System | CO1 | The knowledge of DSS. | |
| | | | | CO2 | Applications DSS Tools | |
| | | | | CO3 | Data Mining and Warehousing concepts | |
| | T3-IT54 | Business Architecture | CO1 | The architecture process frameworks | | |
| | | | CO2 | Business, data and software architecture | | |
| | | | CO3 | Application and infrastructure architecture | | |
| | T3-IT51L | CASE Tools Lab | CO1 | Automated tools used for Software testing | | |
| | | | CO2 | Design & Development, Testing & Project Management | | |
| | T3-BM52L | Activities based on Entrepreneurship Development | CO1 | Generation of Business Plan | | |
| CO2 | | | Preparation of project report | | | |
| TRACK IV : NETWORKING | T4-IT51 | Network Routing Algorithms | CO1 | Different types of network routing protocols | | |
| | | | CO2 | Different types of network routing algorithms | | |
| | | | CO3 | Mobile IP networks and Ad-Hoc networks | | |
| | T4-IT52 | Computer and Network Security | CO1 | Security measures related to computer and network security. | | |
| CO2 | | | Network architecture and device security. | | | |



| SEMESTER | Track | Code | Subject/Course | | Course Outcome [CO] Students will get acquainted with |
|----------|---|----------|---|-----|--|
| | | T4-IT53 | Cloud Architectures and Security | CO3 | Principles of application security. |
| | | | | CO1 | Cloud computing fundamentals and its security concepts. |
| | | | | CO2 | Multi tenancy issues, Virtualization system-specific attacks. |
| | | T4-IT54 | Unified Communication | CO3 | Legal & Compliance issues related to cloud. |
| | | | | CO1 | Basic principles of Telecommunication switching, traffic and networks |
| | | | | CO2 | Basic concepts of IP EPBAX system, wireless propagation and the techniques used to maximize the capacity of network. |
| | | T4-IT52L | Computer and Network Security – Lab | CO3 | Working of VOIP and its protocols. |
| | | | | CO1 | Hands on knowledge of various thing like monitoring and analyzing network traffic |
| | | | | CO2 | Installing and configuring different tools like wireshark, SNORT, NMAP, Port Scanners |
| | | T4-IT53L | Cloud Building within Organization (Deployment of cloud and cloud based applications) | CO1 | Cloud architecture open source technology. |
| | | | | CO2 | Services and features offered by Azure and Amazon |
| | | | | CO3 | Installation of applications on cloud. |
| SEM-VI | | ITC61 | Open subject for each TRACK* | | Open subject relevant for each TRACK* |
| | | ITC61L | Open subject LAB | | Lab on Open subject relevant for each TRACK* |
| | | ITC61P | Project | CO1 | Designing the Database for project |
| | | | | CO2 | Designing UI and apply necessary validation on form |
| | | | | CO3 | Coding and testing of project |
| CO4 | Preparation of documentation for the project. | | | | |



Master of Business Administration (MBA) 2018-19

A. Program Outcomes (POs)

- Conceptual clarity about modern business management concepts to be able to work as a professional in a competitive business environment.
- Apply knowledge of management theories and practices to solve business problems.
- Foster Analytical and critical thinking abilities for data-based decision making.
- Ability to develop Value based Leadership ability.
- Ability to understand, analyze and communicate global, economic, legal, and ethical aspects of business.
- Ability to lead themselves and others in the achievement of organizational goals, contributing effectively to a team environment.

B. Program Educational Objectives (PEOs)

- To equip the students with requisite knowledge, skills & right attitude necessary to provide effective leadership in a global competitive environment.
- To develop competent management professionals with strong ethical values, capable of assuming a pivotal role in various sectors of the Indian Economy & Society, aligned with the national priorities.
- To develop proactive thinking so as to perform effectively in the dynamic socio-economic and business ecosystem.
- To harness entrepreneurial approach and skill sets.



Vidya Pratishthan's

Institute of Information Technology

We Shape Tomorrow...Today



NAAC
NATIONAL ASSESSMENT AND
ACCREDITATION COUNCIL

'A'
GRADE

C. Course Outcomes (COs)

| Semester I | |
|--|---|
| Course Code & Name | Course Outcomes (Capable to/of) |
| 101 Accounting for Business Decisions | CO1 Define various accounting terminologies. |
| | CO2 Familiarize with various accounting tools |
| | CO3 Demonstrate abilities of the functionalities of accounting. |
| 102 Economic Analysis for Business Decisions | CO1 Conceptual clarity of economics concepts. |
| | CO2 Understanding of applicability to economic activities and its effects. |
| | CO3 Familiarize with economic problems and solutions. |
| 103 Legal Aspects of Business | CO1 Acquaintance with legal environment. |
| | CO2 Outline the legal issues and its effect on business environment. |
| | CO3 Familiarize with the legal framework for compliances. |
| 104 Business Research Methods | CO1 Outline the need and purpose of business research. |
| | CO2 Understand and justify various research methods and tools. |
| | CO3 Develop ability to draw research design and conduct simple research projects. |
| 105 Organizational Behaviour | CO1 Epitomize need and purpose of study of behaviour at workplace. |
| | CO2 Elucidate the theoretical framework of human behaviour. |
| | CO3 Observe and comply with workplace related rationalization of human behaviour. |
| 106 Basics of Marketing | CO1 Understanding of functions and philosophy of marketing |
| | CO2 Develop required skills for market related decision making. |
| | CO3 Observe and prepare basic marketing business plan. |
| Semester III | |
| Course Code & Name | Course Outcomes (Capable to/of) |
| 301 Strategic Management | CO1 Define and illustrate various business strategies. |



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|---|--|
| | CO2 Justify and clarify various techniques to formulate and implement strategies. |
| | CO3 Figure out need for shuffling and rationalizing the plans and policies to achieve desired results. |
| 302 Enterprise Performance Management | CO1 Outline various facets of business enterprise. |
| | CO2 Know tool and techniques of Performance measurement. |
| | CO3 Evaluate performance parameters for various types of business organizations. |
| 303 Startup and New Venture Management | CO1 Epitomize the entrepreneurial ingredients of ideal business personalities. |
| | CO2 Develop and demonstrate ability of preparing business plans and documenting projects for approval. |
| | CO3 Know various successful family business models and acquire necessary skillsets. |
| 304 Summer Internship Project | CO1 Acquire on the job skills, knowledge, attitudes, and perceptions. |
| | CO2 Observe and digest various business processes within an organization and it's connect with functions under observations. |
| | CO3 Learn to adapt and hone the skills required to successfully work within an organization. |
| MARKETING MANAGEMENT SPECILIZATION | |
| 305 MKT: Contemporary Marketing Research | CO1: Develop basic understandings from Users as well as Researchers point of view. |
| | CO2: Evaluate and Analyse research proposals. |
| | CO3: Observe various applications of business research tools. |
| 306 MKT: Consumer Behaviour | CO1: Understand basic concepts in consumer behaviour. |
| | CO2: Study the environmental and individual influences on consumers |
| | CO3: Understand consumer behavior in Indian context |
| FINANCIAL MANAGEMENT SPECILIZATION | |
| 305 FIN: Direct Taxation | CO1: Understand the basic concepts in Income Tax Act, 1961. |
| | CO2: Calculate Taxable income and Tax Liability of an individual. |
| | CO3: Access online portal of Income Tax to file Tax Returns. |
| 306 FIN: Financial System of India , Markets and Services | CO1: Understand the overall Financial system of India. |
| | CO2: Observe the functions of different financial intermediaries. |
| | CO3: Describe the concepts & practical dynamics of the |



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| | Financial Markets, Institution and Services. |
| HUMAN RESOURCE MANAGEMENT SPECILIZATION | |
| 305 HR: Labor & Social Security Laws | CO1: Describe the provisions enacted in various Labour Laws. |
| | CO2: Explain Labour and Social Security Laws. |
| | CO3: Observe critical factors related to employees required for legal compliance. |
| 306 HR: Human Resource Accounting & Compensation Management | CO1: Define the basic concepts HRA and CM. |
| | CO2: Explain various methods of identifying cost and value of Human Resources. |
| | CO3: Demonstrate the elements of compensation management of business organization . |

Master of Business Administration (MBA) 2018-19

D. Program Outcomes (POs)

- Conceptual clarity about modern business management concepts to be able to work as a professional in a competitive business environment.
- Apply knowledge of management theories and practices to solve business problems.
- Foster Analytical and critical thinking abilities for data-based decision making.
- Ability to develop Value based Leadership ability.
- Ability to understand, analyze and communicate global, economic, legal, and ethical aspects of business.
- Ability to lead themselves and others in the achievement of organizational goals, contributing effectively to a team environment.

E. Program Educational Objectives (PEOs)

- To equip the students with requisite knowledge, skills &right attitude necessary to provide effective leadership in a global competitive environment.



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- To develop competent management professionals with strong ethical values, capable of assuming a pivotal role in various sectors of the Indian Economy & Society, aligned with the national priorities.
- To develop proactive thinking so as to perform effectively in the dynamic socio-economic and business ecosystem.
- To harness entrepreneurial approach and skill sets.

F. Course Outcomes (COs)

| Semester II | |
|--|---|
| Course Code & Name | Course Outcomes (Capable to/of) |
| 201 Marketing Management | CO1 Outline the framework of marketing mix |
| | CO2 Study and understand the concept of product life cycle |
| | CO3 Learn to prepare need based marketing plan |
| 202 Financial Management | CO1 Understand conceptual framework of finance. |
| | CO2 List and learn financial tools and techniques. |
| | CO3 Develop analytical skills for effective decision making |
| 203 Human Resource Management | CO1 Define role and functions of HRM |
| | CO2 Apply the principles of people management |
| | CO3 Design and substantiate HRMS. |
| 204 Decision Science | CO1 Learn quantitative techniques for effective decision making. |
| | CO2 Elucidate the process of problem formulation. |
| | CO3 Digest various quantitative techniques and it's applications. |
| 205 Operations and Supply Chain Management | CO1 Clarify the conceptual framework of O&SCM. |
| | CO2 Analyze the applications of tools and techniques for O&SCM. |



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| | CO3 Know and apply classification of inventory. |
| 206 Management Information System | CO1 Understand need and conceptual framework of MIS. |
| | CO2 Elaborate usage of various modules of MIS. |
| | CO3 Apply knowledge gained into e-commerce and m-commerce. |
| Semester IV | |
| Course Code & Name | Course Outcomes (Capable to/of) |
| 401 Managing for Sustainability | CO1 Get acquainted with concept of sustainability |
| | CO2 Understand implications of CSR |
| | CO3 Elaborate and understand ethical values in business. |
| 402 Dissertation | CO1 Acquire on the job knowledge and skills. |
| | CO2 Get actual supervised professional experiences. |
| | CO3 Gain deeper understanding of specific domain. |
| MARKETING MANAGEMENT SPECILIZATION | |
| 403 MKT: Services Marketing | CO1 Define services marketing mix. |
| | CO2 Demonstrate the applications of services marketing in different sectors. |
| | CO3 Identify challenges and opportunities in services marketing. |
| 404 MKT: Sales and Distribution Management | CO1 Understand conceptual framework of SDM. |
| | CO2 Illustrate and list various functions of sales manager. |
| | CO3 Learn and apply decision making aspects of SDM. |
| FINANCIAL MANAGEMENT SPECILIZATION | |
| 403 FIN: Indirect Taxation | CO1 Learn fundamentals of Indirect taxes. |
| | CO2 Understand practical elements associated. |
| | CO3 Get acquainted with documentation and procedures related to compliance. |
| 404 FIN: International Finance | CO1 Understand fundamentals of international business and finance. |
| | CO2 Learn problems and solutions to raising and utilizing international funds. |
| | CO3 Know regulatory framework of international finance. |
| HUMAN RESOURCE MANAGEMENT SPECILIZATION | |
| 403 HR: Employment Relations | CO1 Explain need and objectives of employment relations. |
| | CO2 Digest complexities of employment relations and disputes. |
| | CO3 Understand roles of concerned stakeholders. |
| 404 HR: Strategic Human Resource | CO1 Explain concepts of strategy and HRM. |
| | CO2 Correlate HR strategies with business strategy. |



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| Management | CO3 Design strategies related to various areas of HR. |
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