

KRUPANIDHI GROUP OF INSTITUTIONS

CURRICULUM RELEVANCE IN RELATION TO LOCAL/NATIONAL/GLOBAL DEVELOPMENT NEEDS

DEPARTMENT OF BUSINESS ADMINISTRATION

Code	Title of the Course	Module	Need addressed	Description
1.1	ECONOMICS FOR MANAGER	1,2,3,4,5,6	Local/Regional/ National/Global	Course content describes the various economic theories and principles. It equip them with the required tools and techniques for improving their decisionmaking skills. The student will avhieve micro and macro-economic perspective to understand the under pinning of management
1.2	ORGANIZATIONAL BEHAVIOUR	1,2,3,4,5,6	Local/Regional/ National/Global	Course content helps the students to enhance understanding of the dynamics of interactions between individual and the organization. It facilitates a clear perspective to diagnose and effectively handle human behavior issues in Organizations. It helps them to develop greater insight into their own behavior in interpersonal and group, team, situations. The degree to which one can make an individual to think beyond self is the real outcome of the course
1.3	ACCOUNTING FOR MANAGERS	1,2,3,4,5,6	National/Global	Course content enables the students gain knowledge about concepts, principles and techniques of accounting. Also it enables the students use financial and cost data in planning, decision making and control. It explains financial statements – concepts, conventions and standards that influence preparation of financial statements. Identifying problem areas in business through various financial techniques. Managing cost – that is, controlling and reducing cost and recent developments in Accounting and its relevance are the outcomes of the course


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1.4	STATISTICS FOR MANAGEMENT	1,2,3,4,5,6	Local/Regional/ National/Global	Course content elevates students' awareness of data in everyday life and prepare them for a career in today's age of information. It imparts an assured level of competence, or understanding, of the basic ideas, terms, and language of statistics. It helps to develop statistical literacy skills in students in order to comprehend and practice statistical ideas at many different levels. It promotes the practice of the scientific method in our students: the ability to identify questions, collect evidence (data), discover and apply tools to interpret the data, and communicate and exchange results. This course helps the students to achieve statistical literacy and to find ways to move beyond the-what of statistics to the how and why of statistics
1.5	MARKETING FOR CUSTOMER VALUE	1,2,3,4,5,6	Local/Regional/ National/Global	Course content elevate students' awareness of an organization's resources required for Marketing in today's age of information. It develops marketing skills and helps to understand the requirements of a career in marketing. The scope of a business' marketing management depends on the size of the business and the industry in which the business operates. It enables the students to use a company's resources to increase its customer base, improve customer opinions of the company's products and services, and increase the company's perceived value.


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1.6	BUSINESS AND INDUSTRY	1,2,3,4,5,6	Local/Regional/ National	Course content explains the fundamentals of Indian economy, business and industry. It helps to study the present status of Business & Industry in India and to get a glimpse of future challenges. The outcome of this course is the level of understanding of the dynamics of business and industry by students.
1.7	COMMUNICATION SKILLS	1,2,3,4,5	National/Global	Course content sharpens the Analytical, Written, non-verbal, Spoken Communication and interpersonal Skills essential in organizations involving Decision making and implementation. It helps to demonstrate good team work and negotiation skills. At the end of this course, students will have the clarity about communication skills to be used in organizations
2.1	TECHNOLOGY FOR MANAGEMENT	1,2,3,4,5,6	National/Global	Course content creates awareness of information technology and develop an in-depth and systematic understanding of key aspects of IT Management. It helps to help students gain a strategic perspective on business and to evaluate the value of emerging technologies and their competitive advantage. By the end of the course, students will gain the skills required to navigate through the complexities of managing data and also become the appreciators of technological environment


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2.2	MANAGERIAL RESEARCH METHODS	1,2,3,4,5,6	Local/Regional/ National/Global	Course content instills a comprehensive and step-wise understanding of the research process with a balanced blend of theory and applicative technique. It familiarizes students with the types of management problems of organizations. It facilitates them develop insights about basic concepts of research designs and methodology aimed at solving business problems. Students can be an asset to the organization by transforming into well-equipped and scientifically skilled research professionals and managers by conducting research in every aspect of decision making in the organization
2.3	ENTREPRENEURSHIP AND ETHICS	1,2,3,4,5,6	National/Global	Course content inculcates the spirit and perspective of entrepreneurship among students. It makes the students as job creators instead of job seekers. It enables the students to critically examine ethical dilemmas in entrepreneurship. At the end of the course, the students would be aware of alternative to jobs and employment which will make them job providers in an ethical manner
2.4	HUMAN CAPITAL MANAGEMENT	1,2,3,4,5,6	Local/Regional/ National/Global	Course content enlightens the students on the principles and practices of HR as a capital factor. It introduces the entire gamut of scope of HR. It captures the changing landscape of HR. The students must be in a position to address the challenges of organizational management through and with human resources. Thereby, the manager would become harbinger of change management


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2.5	FINANCIAL MANAGEMENT	1,2,3,4,5,6	National/Global	Course content provides the concepts and foundations of managing finance in business enterprises. To equip students with tools and techniques for managing finance. It orients the students regarding financial management practices in Indian companies and Global enterprises. By the end of this course, a student would learn to identify financial challenges, tools and techniques for decisions and would get a glimpse of practices
2.6	QUANTITATIVE TECHNIQUES AND OPERATION RESEARCH	1,2,3,4,5,6	Local/Regional/ National/Global	Course content imparts knowledge in concepts and tools of OR and QT. It helps the students apply these tools in managerial decision making. The students must develop confidence and clarity in application of tools
2.7	INNOVATION MANAGEMENT	1,2,3,4,5	Local/Regional/ National/Global	Course content apprises on value of innovation. It helps to impart skills of innovation. It enables students think and act on innovation. It helps to attain conceptual and application clarity on innovation
3.1	STRATEGIC MANAGEMENT AND CORPORATE GOVERNANCE	1,2,3,4,5,6	Local/Regional/ National/Global	Course content enlightens the students with the concepts and practical applications of Strategic Management and Corporate Governance. It instils a comprehensive and step-wise understanding of the principles of strategy formulation and competitive analysis This course will equip the students with required skills of managerial decisions and actions. This will enable students to transfer conceptual learning to strategic application in their professional lives

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3.2	PROJECTS AND OPERATIONS MANAGEMENT	1,2,3,4,5,6	Local/Regional/ National/Global	Course content imparts the concepts, tools and techniques of project management. It helps to gain clear understanding of Operations Management and to gain a perspective on quality improvement and cost reduction. At the end of the courses, the students must have better insight in to project and operations management
3.3.1	INDIAN FINANCIAL SYSTEM	1,2,3,4,5,6	Local/Regional/ National	Course content provides an insight into the functioning of Indian financial system. It makes the students understand the various components of the financial system, the inter-relationship among different components and the impact on business enterprise. At the end of the course, student will learn the framework of Indian Financial System, the various financial institutions that have impact and influence on business organizations and their functioning, the financial markets and their mechanism, with special emphasis on Stock Exchanges and various financial services available for a business enterprise


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3.3.2	CORPORATE TAX PLANNING AND MANAGEMENT	1,2,3,4,5,6	Local/Regional/ National/Global	Course content imparts students with knowledge on tax, types of tax and their modalities. It gives insight on the taxes influencing a corporate entity – both direct and indirect. It orients the students on the procedures and formalities to be adhered, with regard to tax matters. It explains the meaning of taxes, types of tax and the differences between them and the taxonomy of taxation in India. It helps in computation of income tax liability of a corporate entity and the strategies for legally reducing tax burden, the various indirect taxes levied by Union Government on corporate entities, the extent of liability and procedural formalities in respect of each of the taxes.
3.3.3	CORPORATE VALUATION AND RESTRUCTURING	1,2,3,4,5,6	Local/Regional/ National/Global	Course content provides knowledge on valuation of business enterprises. It makes students understand the various models of value-based management. It gives insight on various forms of corporate restructuring. It explains the basic concepts required for corporate valuation, the various methods of valuation, valuation in special cases, models of value-based management and Strategies for 'value maximization' – corporate restructuring, with special focus on mergers and acquisitions


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3.4.1	RETAILING MANAGEMENT AND SERVICES	1,2,3,4,5,6	Local/Regional/ National/Global	Course content helps to understand the services domain from a marketing perspective. It explains retailing as a business and have a comprehensive view of the marketing and store management functions in a retailing organization. At the end of the course, student must be able to understand the essential components of a service business and <u>manage retailing</u>
3.4.2	CONSUMER BEHAVIOUR	1,2,3,4,5,6	Local/Regional/ National/Global	Course content helps to gain clear understanding of the factors that shape consumer behavior, to understand various theoretical models of consumer behavior and to gain a perspective on consumer behaviour research and some important tools and techniques used. At the end of this course, students will be able to appreciate the importance of understanding consumer behaviour for marketing success, understand the various factors shaping consumer behaviour and choice, be able to conduct exploratory research in consumer behavior and be able to use understanding of consumer behaviour in making marketing plans
3.4.3	RURAL AND AGRICULTURAL MARKETING	1,2,3,4,5,6	Local/Regional/ National/Global	Course content helps to understand the opportunities and challenges in rural marketing, to understand the differences between Rural and Agricultural marketing and to evaluate different marketing strategies used in rural distribution and promotion. At the end of the course, the student must develop an appreciation for rural and agricultural marketing


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3.5.1	LEARNING AND DEVELOPMENT	1,2,3,4,5,6	Local/Regional/ National/Global	Course content enables the students to understand the concepts, principles and process of learning and development. It helps to develop an understanding on various non-training solutions to improve employee performance. By the end of this course, a student would learn to develop an understanding of how to assess training needs and design training programmes in an Organisational setting. To familiarize the student with the levels, tools and techniques involved in evaluation of training effectiveness
3.5.2	INDUSTRIAL AND EMPLOYEE RELATIONS	1,2,3,4,5,6	Local/Regional/ National/Global	Course content helps to develop an understanding of the interaction pattern among labour, management and the State and to build awareness of certain important and critical issues in Industrial Relations. By the end of this course the student would learn basic knowledge of the Indian Industrial Relations System and its distinctive features in comparison to other countries
3.5.3	PERFORMANCE MANAGEMENT SYSTEM	1,2,3,4,5,6	Local/Regional/ National/Global	Course content equips the students with comprehensive knowledge and practical skills to improve their ability for performance appraisal in their organizations. It is particularly intended for students as future managers and supervisors who will conduct the performance appraisal of their subordinates


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3.9	OPENELECTIVE-CYBERSPACE	1,2,3,4,5,6	Local/Regional/ National/Global	Course content helps to understand cyberspace, social media in cyberspace, advantages, disadvantages, IT Act 2000/2008, Digital Signature, Electronic Signature, e-commerce, and e-governance. By the end of the course, the students must have increased knowledge about cyberspace and its applications.
3.1	PROJECT WORK FOR 4 WEEKS		Local	Course content helps to develop larger life skills and positive attitude among students to make them more competent and industry ready. After completing the project work, students must enrich with competency/ skills/ attitudes and perspective about live society and organization.
4.1	INTERNATIONAL BUSINESS DYNAMICS	1,2,3,4,5,6	Global	Course content helps to make students to learn how business organizations operate in an international environment. It helps to understand the impact of international influences on business and to help students to plan a career in international business. By the end of the course, the students must have increased confidence to take up a career in international business
4.2.1	INVESTMENT ANALYSIS AND MANAGEMENT	1,2,3,4,5,6	Local/Regional/ National/Global	Course content provides knowledge and skill in identifying various investment alternatives and choosing the suitable alternatives. It helps to orient on the procedures and formalities involved in investing. By the end of this course, a student would learn. How to define investment goals and constraints. Identifying investment alternatives. Choosing the best / suitable alternatives. How to construct a portfolio, Portfolio management

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4.2.2	INTERNATIONAL FINANCIAL MANAGEMENT	1,2,3,4,5,6	Global	<p>Course content orients the students on global business environment and international markets. It helps the students to understand the various risks an enterprise is exposed to on account of international transactions. It provides knowledge and skills for hedging foreign currency risks. By the end of this course, a student would learn, The global financial environment, currency system, relationship between economies and impact of international transactions on the economy. Functioning of international financial markets. Fixing of exchange rate. Foreign currency risks and hedging strategies. Interest rate risks and hedging strategies</p>
4.2.3	RISK MANAGEMENT AND DERIVATIVES	1,2,3,4,5,6	Local/Regional/ National/Global	<p>Course content orients students on the meaning and types of risks. It provides knowledge on risk measurement and evaluation in making capital budgeting decisions. It provides knowledge on risks associated with investments outside the business and strategies for hedging the same with derivatives. By the end of this course, a student would learn, Meaning and types of risk. Risk analysis in capital budgeting. Risks associated with investments and hedging with derivatives. Meaning and types of derivatives. Futures – terminology, mechanism, hedging and pricing. Options – terminology, mechanism, pay-offs, hedging and pricing. Commodity markets and commodity derivatives</p>


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4.3.1	STRATEGIC BRAND MANAGEMENT	1,2,3,4,5,6	Local/Regional/ National/Global	Course content gives students a deeper understanding of the process of brand building in a variety of business contexts, the integrated requirements for effective brand reinforcement, revitalization as well as the models, measures and impact of brand equity. By the end of this course, students should be able to: Understand key principles of branding, positioning and brand building strategies
4.3.2	INTERNATIONAL MARKETING STRATEGY	1,2,3,4,5,6	Global	Course content acquaints students with International Marketing knowledge and strategies. It helps the students to solve problems of International Marketing and sales practice. It assists the students to specialize in marketing within an international context. It guides the students on International Documentation. It helps the students to channelize the fruits of Emerging Markets with an opportunity perspective. Students will be able to evaluate the various forces when products and services enter the global marketplace
4.3.3	DIGITAL MARKETING	1,2,3,4,5,6	Local/Regional/ National/Global	Course content helps to understand the basics of digital marketing. It develops a comprehensive digital marketing strategy. It explains how to use new media such as search engine and social networking. By the end of the course, the student will be able to evaluate the risks involved in digital marketing. It shall make them be able to attract and retain customers online


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4.4.1	STRATEGIC HRM	1,2,3,4,5,6	Local/Regional/ National/Global	Course content helps to develop the perspective of strategic human resource management, to distinguish the strategic approach to human resources from the traditional functional approach to appreciate SHRM in the context of changing forms of organisation. By the end of this course- a student would learn the relationship of HR strategy with overall corporate strategy and Understand the strategic role of specific HR systems.
4.4.2	INTERNATIONAL HRM	1,2,3,4,5,6	Global	Course content helps to assess the extent to which multinational companies can have companywide HRM strategies, policies and practices. By the end of this course, a student would learn a preview of the major challenges that MNC's face and to be familiar, through a real-life case study, with some of the HRM issues faced by staff in a foreign subsidiary of a major multinational company
4.4.3	TALENT AND KNOWLEDGE MANAGEMENT	1,2,3,4,5,6	Local/Regional/ National/Global	Course content helps to impart the knowledge on talent and knowledge management and its importance in contemporary business. By the end of this course, a student would learn the new concepts in talent and knowledge management and its relevance in the corporate

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4.8	DISSERTATION FOR 6 WEEKS IN AN ORGANIZATION		Global	Course content helps the student develop research ability to apply multi-disciplinary concepts, tools and techniques to solve the organizational problems. It enables the student to develop deeper knowledge, understanding, capabilities and attitudes in the context of the programme of study. It increases the capability to plan and use adequate methods to conduct qualified tasks in given frameworks and to evaluate this work. It improves the capability to contribute to research and development work.
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DEPARTMENT OF COMPUTER SCIENCE

Code	Title of the Course	Module	Need addressed	Description
MCA101T	Problem Solving Techniques using C	1,2,3,4,5	Local/Regional/ National/Global	The purpose of this course is to introduce to students to the field of programming using C language. The students will be able to enhance their analysing and problem solving skills. Know concepts in problem solving. To do programming in C language To write diversified solutions using C language
MCA102T	Accounting and Financial Management	1,2,3,4,5	Local/Regional/ National/Global	To enable the students gain knowledge about concepts, principles and techniques of accounting. To evaluate the value of emerging technologies and their competitive advantage. Students will be able to Identifying problem areas in business through financial management tools also hee will be able to Financial statements – concepts, conventions and standards that influence preparation of financial statements


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MCA103T	Digital Electronics and Microproces	1,2,3,4,5	Local/Regional/ National/Global	The objectives of this course are to provide graduate students of MCA with a sound understanding of the fundamental concepts digital electronics. This course facilitates mastery of the techniques used to design a microprocessor. It provides students practical knowledge in designing 8086 microprocessor. It is helpful for the students to Learn different types of number systems & its conversions, Master the techniques used to model a flip-flops and logic gates, Learn assembly language programming for designing a microprocessor. Recent developments in Accounting and its relevance
MCA104T	Discrete Mathematics	1,2,3,4,5	Local/Regional/ National/Global	Course will help To have understanding on basics of discrete mathematics. To learn different concepts of probability analysis, To master the concepts of graph theory. At the end of this course, students will achieve thorough knowledge about different applications of discrete mathematics and will be able to apply graph theory for solving complex problems.


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MCA201T	Data Structures	1,2,3,4,5	Local/Regional/ National/Global	To solve problems using data structures such as linear lists, stacks, queues, hash tables, binary trees, heaps, binary search trees, and graphs and writing programs for these solutions. To have understanding about writing algorithms and step by step approach in solving problems with the help of fundamental data structures. Students will learn to The objective of this course is to provide graduate students of MCA with a sound understanding of the fundamental concepts of database. This course facilitates mastery of the queries related to SQL. Students will learn how to create database tables, insert values and update values. The course explains many realistic application of database which helps students to explore more about database. Implement stack using both array based and linked-list based data structures.
MCA202T	Database Management System	1,2,3,4,5	Local/Regional/ National/Global	The objective of this course is to provide graduate students of MCA with a sound understanding of the fundamental concepts of database. This course facilitates mastery of the queries related to SQL. Students will learn how to create database tables, insert values and update values. The course explains many realistic application of database which helps students to explore more about database. students will learn to Learn what database is and how to manage database, Master all the queries related to SQL, Learns the concepts of transaction processing, Understands how to provide security to database and to prevent unauthorized access.


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MCA203T	Computer Networks	1,2,3,4,5		<p>Different networking techniques from the lowest level of data transmission and writing to highest levels of application software. How services will be developed and how services will be used in internet. Develop practical networking knowledge and skills in professional environment with emphasis on hands on approach. Learn and design build and maintain computer network capable of supporting local and global organisation. Acquire the knowledge and skills needed to prepare for trade related examination. Students will learn to How to configure and implement the LAN and how data will be transferred in connected network. How wide area networks are implemented and how datagram crosses the internet. How TCP identifies a connection and why a concurrent web server can handle multiple connection port.</p>
MCA204T	Operating System	1,2,3,4,5	Local/Regional/ National/Global	<p>This course will help to understand the evolution of OS To understand and develop knowledge of memory management, process management, I/O management & file management. To learn the about process & memory allocation techniques To understand the concepts and solve the case study. Understanding the Importance of operating systems. How operating systems play role in process, I/O management. How the memory & CPU scheduling is done. How OS provides security and recovery.</p>


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MCA301T	File Structures	1,2,3,4,5	Local/Regional/ National/Global	To obtain insight into Files and the underlying File Structures Working with Different types of Files: Fixed Length and Variable Length records.Understanding Sorting, Searching and Merging of Files.Understanding Indexes and Structures used for Indexing.Understanding B-trees and their variants, with their implementation.nderstanding Hashing techniques and its implementation.Understand the indexes and implementation of the primary and secondary indexes.Learn and implement the concept of hashing and extendible hashing.
MCA302T	Object Oriented Analysis and Design	1,2,3,4,5	Local/Regional/ National/Global	The objectives of this course are to provide graduate students of MCA with a sound understanding of the fundamental concepts of the UML and object model. This course facilitates mastery of the notation and process of object-oriented analysis and design. Students will learn how to apply the UML to a number of common modelling problems. The course explains many realistic application of object-oriented development which helps students to solve common problems related to project design.Learn what the UML is and why the UML is relevant to the process of developing software-intensive systems.Master the vocabulary and rules of UML and, in general, learn how to model a complex system.
MCA303T	Theory of Computation	1,2,3,4,5	Local/Regional/ National/Global	To learn the applications and implementations of theory of computation. The ability to solve problems like NP, NPC. The skill to analyze and solve problems using turing machine.


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MCA304T	Statistical Analysis	1,2,3,4,5	Local/Regional/ National/Global	To train students thoroughly in methods of analysis and algebra, including the computational skills appropriate for mathematicians to use when solving problems.To develop oral and written communication skills that allow students to present information effective.To in still in our students an understanding of their professional and ethical responsibilities.The ability to communicate effectively in oral and written form.Significant attainment of knowledge in at least one discipline other than Statistics.A commitment to engage in lifelong learning
MCA305P	File Structures Lab	1,2,3,4,5	Local/Regional/ National/Global	To solve problems using data structures such as linear lists, stacks, queues, hash tables, binary trees, heaps, binary search trees, and graphs and writing programs for these solutions.To understanding about writing algorithms and step by step approach in solving problems with the help of fundamental data structures.To teach efficient storage mechanisms of data for an easy access. To design and implementation of various basic and advanced data structures.To introduce various techniques for representation of the data in the real world.To improve the logical ability.Analyze run-time execution of previous learned sorting methods, including selection, merge sort, heap sort and Quick sort. Implement stack using both array based and linked-list based data structures. Implement Queue using both array based circular queue and linked-list based implementations. Implement binary search trees.


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MCA306P	Object Oriented Analysis and Design	1,2,3,4,5	Local/Regional/ National	<p>The objectives of this course are to make students of MCA to design 9 UML diagrams for modelling a system. Students should first model diagrams for a unified library management system & then has to undertake a project individually & should design diagrams for it. Learn what are UML notations & how to represent them. Master the vocabulary and rules of UML and, in general, learn how to model a complex system. Analyse a given scenario and model diagrams for each phase of a project.</p>
MCA307T	Soft Core – Quantitative, Teaching	1,2,3,4,5	Local/Regional/ National	<p>To make students understand the methods to formulate the real-time problems and finding the optimal solution of it. To make students understand the methods to solve transportation problems and assignment problems making them capable of finding the shortest path to transport things also to find the solution to assign works to the capable person with optimal output. To make students capable of solving the game problems by using different methods of game theory. Students should be able to understand the difficulties in the queuing system. Making them capable of solving the difficulties in this system making them capable of finding the solution of it. Students will be able to solve the game problem by finding saddle point and by finding maximum and minimum point. also will be able to solve the game without saddle point.</p>


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MCA401T	Advanced Java Programming	1,2,3,4,5	Local/Regional/ Na	The objectives of this course is to provide knowledge and hands on experience over the issues of managing data on web, developing powerful GUI based friendly user interface, server side programming and developing applications for communication over network using object oriented fundamentals.Advanced Java enhances the Java programming. After learning this subject, student will be able to develop network based software projects required in curriculum as well as industry.Create business applications. Implement Server side programming.Design and develop powerful GUI based components.Create Animation using Applet, Thread and AWT controls.
MCA402T	Advanced Algorithms	1,2,3,4,5	Local/Regional/ Na	To implement advance analytics techniques and tools to solve computational problems and use them with dexterity.To inculcate skills to critically analyse, design, develop various algorithms which can be used in advanced analytics.To provide the foundations of the practical implementation and usage of algorithms and data structures.Analyse the asymptotic performance of algorithms and write rigorous correctness proofs for algorithms. Apply important algorithmic design paradigms and methods of analysis. Have insight to advance analytics techniques and tools.Understanding of various algorithms used in advanced analytics


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MCA403T	Advanced Software Engineering	1,2,3,4,5	Local/Regional/ Na	<p>To know about.Agile development,Web Application Design.To learn Formal Modelling and verification,Formal methods.Can get clear idea about Software Project Management , Projects.To know about software project scheduling, Risk Management,Maintenance and ReengineeringTo know about SCM,project matrices.to apply knowledge of math, science, and software engineering as well as collect, analyze and interpret data.to analyze, design and manage the development of a computing-based system, component or process to meet desired needs within realistic constraints in one or more application domains.to function on multidisciplinary teams.to identify, formulate, and solve software engineering problems using a well-defined engineering process.understand of professional and ethical responsibility, a commitment to on-going professional competence and possession of basic professional and organizational success skills</p>
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MCA404T	Quantitative Techniques	1,2,3,4,5	Local/Regional/Na	<p>To make students understand the methods to formulate the real-time problems and finding the optimal solution of it. To make students understand the methods to solve transportation problems and assignment problems making them capable of finding the shortest path to transport things also to find the solution to assign works to the capable person with optimal output. To make students capable of solving the game problems by using different methods of game theory. Students should be able to understand the difficulties in the queuing system. Making them capable of solving the difficulties in this system making them capable of finding the solution of it. Students will be able to formulate the problem which can be converted to linear equations. And will be able to solve it. Know about the transportation problem and assignment problem will be able to assign the given job to the suitable person among the employees. Will be able to solve the CPM and PERT network to find the critical path of the given network. They will be able to solve the game problem by finding saddle point and by finding maximum and minimum point. also will be able to solve the game without saddle point.</p>
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MCA501T	Advanced Web Programming	1,2,3,4,5	Local/Regional/ Na	<p>Continue to develop and practice professional design skills.Learn web programming skills focused on visual aesthetics and more robust and efficient interface design. Understand the principles of creating an effective web page, including an in-depth consideration of information architecture.Understand the basic syntax and data types of various web programming languages. Develop web based project in Perl, PHP,JSP,Servlet, Ruby, Rails and AJAX. Combine multiple web technologies to create advanced web components.Use scripting languages and web services to transfer data and add interactive components to web pages.Incorporate best practices in navigation, usability and written content to design websites that give users easy access to the information they seek.Learn about the databases connectivity with the languages.Understand the usefulness of the different web technologies.</p>
MCA502T	Advanced Database Management S	1,2,3,4,5	Local/Regional/ Na	<p>To learn advanced concepts in database management system.Learn about NoSQL database and its applications.Learn the architecture of SAN.Understand the implementation of datawarehousing.</p>

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MCA503T	Artificial Intelligence	1,2,3,4,5	Local/Regional/ Na	<p>The objectives of this course are to provide graduate students of MCA with comprehensive and in-depth knowledge of AI principles and techniques by introducing AI's fundamental problems, and the state-of-the-art models and algorithms used to undertake these problems. This course is also designed to expose students to the frontiers of AI-intensive computing and information systems, while providing a sufficiently strong foundation to encourage further research. Compare AI with human intelligence and traditional information processing, and discuss its strengths and limitation and its application to complex and human-centered problems. Apply the basic principles, models and algorithms of AI to recognize, model and solve problems in the analysis and design of information systems. Analyse the structures and algorithms of a selection of techniques related to searching, reasoning, machine learning and language processing.</p>
MCA504T	Open Elective	1,2,3,4,5	Local/Regional/ Na	<p>To enable students to get an insight on fundamentals of management as a discipline. This course develops appreciation of management as a subject and discipline</p>


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MCA601T	Elective – I	1,2,3,4,5	Local/Regional/ Na	<p>The objective of this course is to provide graduate students of MCA with a sound understanding of the fundamental concepts of TCP/IP. This course facilitates mastery of the all the protocols related to routing & internetworking. The course explains many realistic applications & mainly focuses on implementation of internet protocols which helps students to have a better understanding of networking concepts. Learn internetworking concepts.</p> <p>Master all the protocols related to TCP/IP. Understands how to provide security to network and to prevent unauthorized access. Learns how to implement TCP/IP protocol.</p>
MCA602T	Elective – II	1,2,3,4,5	Local/Regional/ National/Global	<p>To provide an overview of an exciting growing field of big data analytics. To introduce the tools required to manage and analyze big data like Hadoop, NoSql MapReduce. To teach the fundamental techniques and principles in achieving big data analytics with scalability and streaming capability. To enable students to have skills that will help them to solve complex real-world problems for decision support. Understand the key issues in big data management and its associated applications in intelligent business and scientific computing. Acquire fundamental enabling techniques and scalable algorithms like Hadoop, Map Reduce and NO SQL in big data analytics. Interpret business models, scientific computing paradigms and apply software tools for big data analytics. Achieve adequate perspectives of big data analytics in various applications like recommender systems, social media applications etc</p>


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